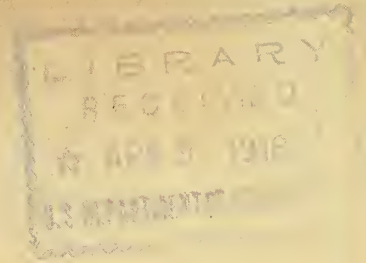
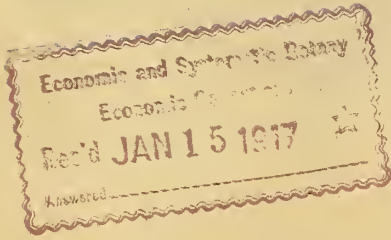


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The
MEYER
STISSER
COMPANY

1917
Garden
Book

The Song of the Lark



Seventh Annual Edition The Meyer-Stisser Co.'s Garden Book for 1917

We Take This Opportunity

of thanking our many customers for their generous patronage in the past, and to assure them that we will continue to do all in our power to merit a continuance of their confidence. Our organization and equipment are such that orders can be executed rapidly, and we aim to give every order, no matter how small or how large, prompt and careful attention. Our whole efforts and time are unfailingly devoted to uphold the reputation which we have established, and we shall ever be on the alert to support our motto, "Punctuality, Sterling Quality, Courteous Treatment."

PLEASE READ!

We aim to give our customers the best service possible. If we make an error, tell us about it and we'll make it right to your satisfaction. If there is any information you want in our line of business, write us, (if you can't call), and we shall be glad to give it careful attention. Our various departments are in charge of experts, who are able to answer intelligently almost all inquiries pertaining to horticulture or agriculture. Always write inquiries on a sheet separate from your order: it means quicker reply.

THE ATTENTION OF OUR CUSTOMERS IS RESPECTFULLY CALLED TO THE FOLLOWING DIRECTIONS, WHICH WILL, IF FOLLOWED, BE AN AID TO PURCHASERS AS WELL AS OURSELVES:

BUSINESS RULES

Ordering, Remitting, Accounts, Forwarding, Etc.

Please Order Early, thus enabling us to forward promptly—as a rule the day after the order is received. During the March and April rush we may fall a day or two behind; if any greater delay is likely, we will advise.

The Order Blanks accompanying this catalogue will be convenient for customers and facilitate our filling orders (extra ones mailed on request).

Remittances should be made by Express Money Order, P. O. Money Order, Bank Draft or Registered Letter.

Accounts—Parties having no account with us—who order goods without remittance—must furnish satisfactory reference. Baltimore reference preferred on account of the shorter delay pending investigation.

We Forward as Customer Directs, by mail, express, freight or steamer. When no shipping instructions are given we send according to our judgment.

We Make No Charge for Shipping and Carting of goods to any railroad station, steamship line or express office in Baltimore.

Correspondence in the German Language—For the convenience of our customers who would prefer their native language, we are pleased to announce that we are prepared to correspond in German.

(Hier wird deutsch gesprochen.)



C. & P. Phone, St. Paul 6916

Order by Telephone—We have installed a most modern system, enabling our customers to receive instant attention. A special staff of experienced salespeople are reserved exclusively for the telephone service, so that our patrons may enjoy intelligent shopping from their homes.

We Cannot Guarantee the Well-doing of any seeds, plants or bulbs we send out. We use every effort possible in the selection of our seeds, and feel justified in saying that all our seeds are the purest and best to be found, but at the same time, there being so many things beyond the control of man that spoil the best seeds and cause poor crops, that it is impossible to guarantee seeds. Therefore, The Meyer-Stisser Company give no warranty, expressed or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs or plants they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they must be returned at once.

When seeds are ordered by mail, postage must be added to catalogue prices at the regular parcel post rate, according to the zone the purchaser is in. One quart of Peas and Beans, weighing about 2 lbs. each, and Corn about 1½ lbs. Packages and ounces are mailed postpaid.

REMEDIES AND INSECTICIDES IN LIQUID FORM AND POISONS CANNOT BE SENT BY PARCEL POST.

Prices of seed vary. We quote Market Values upon request and always give our customers the benefit of the lowest price that the market condition will warrant. Special prices on a general list will be given upon application.

Invitation

All customers and others interested in horticulture or agriculture are cordially invited to visit our establishment, 32 Light Street. Whenever in Baltimore make this store your headquarters and have all letters and telegrams addressed here.

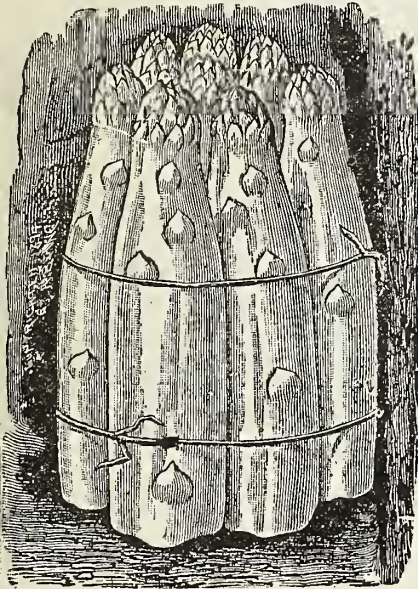
SPECIAL NOTICE—Positions For Gardeners, Etc.

Our house makes it their business to procure positions for Gardeners, Superintendents, Poultrymen, Farmers and Florists on private or commercial places. Gentlemen wishing to engage the services of men in the above capacity are invited to communicate with us, as we generally have applications on file from desirable parties. Absolutely no obligation is connected with this service.

ASPARAGUS—Seeds and Roots (Ger. Spargel)

One ounce to forty feet of drill. 5 lbs. per acre.

Culture—Sow in March or April, in rows one foot apart. When two years old transplant into permanent beds, which should be well and deeply manured, and trenched to the depth



Asparagus Glant Argenteuill

Glant Argenteuill—A new and entirely distinct variety that produces shoots that are white, and remain white as long as fit for use. Pkg., 5c. and 10c.; oz., 15c.; ¼ lb., 25c.; lb., 75c.; two-year-old plants, 100, \$1.00; 1000, \$7.50.

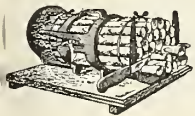
Columbian Mammoth White—Pkg., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.; two-year-old plants, 75c. 100; \$5.00 1000.

Conover Colossal—Of large size, tender and of excellent quality. Green shoots. Pkg., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.; two-year-old plants, 75c. 100; \$5.00 1000.

Palmetto—It is of very large size, even and regular in growth and appearance. It is a very early sort, and immensely productive and of the best quality. Green shoots. Pkg., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.; two-year-old plants, 75c. 100; \$5.00 1000.

of two feet. In planting for private use, set out in beds five feet wide, three rows in a bed, the outer being each one foot from the edge, and allow eighteen inches between the rows; set the plants from four to six inches below the surface. If set out in autumn, top-dress with six inches of manure. For market, on a large scale, set out four by one and one-half feet. On the approach of winter cover with manure or compost; fork the beds early in spring, and apply a dressing of salt. Cut for use the second year after planting in permanent bed. Never cut too closely. The roots need the benefit of some foliage during the year, else they will weaken and die. Slugs are easily destroyed by applying air-slaked lime or paris-green.

ACCESSORIES FOR ASPARAGUS CULTURE



Asparagus Buncher—Even where one has a limited amount of asparagus to market it pays to use a buncher. It is quickly tied and looks uniform. With Knife Guard, \$1.75.

Parcel post weight 8 lbs.

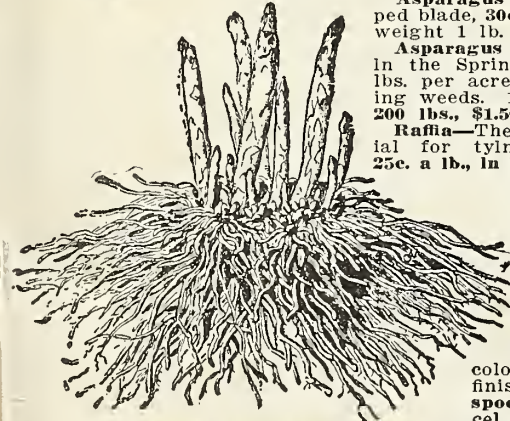
Asparagus Knife—V-shaped blade, 30c. Parcel post weight 1 lb.

Asparagus Salt—Applied in the Spring, 600 to 800 lbs. per acre, for destroying weeds. 100 lbs., \$1.00; 200 lbs., \$1.50.

Raffia—The ideal material for tying asparagus. 25c. a lb., in hanks. Special price in quantity; hank runs about 2½ lbs.

Jute Twine—Very soft and pliable. 10c. per ball; 25c. lb.

Asparagus Tape—In fast color—red, glazed finish; 1,000 yard spool \$2.25. Parcel post weight 4 lbs.



Two-Year-Old Asparagus Plants

ARTICHOKES

Large Green Globe—This is a very delicious vegetable. Some prefer it cooked like asparagus; that is, take the flower head before it begins to open and cook much the same as asparagus. Pkt., 10c.; oz., 35c.

Artichoke Roots (Jerusalem)—The tubers roasted or boiled, served with butter, salt and pepper, make a dish some think superior to potatoes. They are most excellent feed for cows, and will cause an increase in quantity and quality of milk. Pk., 75c.; bu., \$2.50.

BRUSSELS SPROUTS (Ger. Rosenkohl)

One ounce will produce 2000 plants.

A variety of the Cabbage family, possessing the peculiarity of bearing upon its stem or stalk from fifty to one hundred buds resembling miniature Cabbage heads. The leaves composing these heads resembling Savoy Cabbage in their crumpled texture and also in their color. The heads or buds, one to two inches in diameter, form one of the most delicious garden vegetables, only equaled by the Cauliflower. Treat same as Cabbage.

Improved Dwarf—Produces compact sprouts of the finest quality; a good keeper. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 60c.; lb., \$1.75.

BROCCOLI (Ger. Spargelkohl)

One ounce of seed to 200 feet of row.

A plant much resembling the Cauliflower. Broccoli requires a longer season to develop than Cauliflower. It has more numerous and stiffer leaves and the heads are smaller. Treat same as Cabbage.

Early Large White—Heads medium size, close and compact. One of the most certain to head. Pkt., 10c.; oz., 30c.; ¼ lb., \$1.00.

Early Purple Cape—Rather harder sort, with greenish-purple heads, good flavor. Pkt., 10c.; oz., 30c.; ¼ lb., \$1.00.



Brussels Sprouts Improved Dwarf

BEANS (Ger. Bohnen)

Culture—The seed should not be planted before the ground becomes light and warm, in favorable seasons, usually about the middle of April to first of May. The soil should be rich and mellow, and the seeds scattered about three inches apart in drills two feet apart, and covered about two inches deep. Successive sowings made at intervals of about two weeks until August 15th, will give a plentiful supply of Beans all season. One quart of seed will sow 100 feet of drill; two bushels will sow an acre.

We furnish 5c. and 10c. packages of all Beans.

BUSH BEANS (Green Pod)

Hopkins Improved Extra Early Red Valentine—One of the most popular early snap beans with round, fleshy pods about five inches in length; very brittle, tender and of fine quality. Pt., 25c.; qt., 40c.; pk., \$2.50; bu., \$8.00.

M. & S. Glaut Stringless Green Pod—The round, dark green pods, glant in size, are absolutely stringless and unsurpassed in tenderness. For the garden, there are few that will give better satisfaction. Pt., 25c.; qt., 50c.; pk., \$3.50.

Black Valentine, or May Queen—Has very long handsome round pods, and being immensely productive places this variety as one of the most profitable for the market gardener. It is very early. Pt., 25c.; qt., 40c.; pk., \$3.00.

(Beans continued on next page.)



M. & S. Giant Stringless Green Pod Beans

Dwarf Horticultural, or Cherry—This is a broad, long, flat, meaty bean, very productive, delicious flavor. It also makes a good dried bean for winter. Pt., 20c.; qt., 35c.; pk., \$2.75.

M. & S. Longfellow—Vigorous in growth. Sixteen inches tall, bearing abundance of handsome green pods, 5 to 6 inches long, round, slightly curved, stringless when young, of good quality. We advise our trucker customers to give this valuable bean a trial. Pt., 25c.; qt., 50c.; pk., \$3.00.

Burpee's Stringless Green Pod—An ideal variety having round, slightly curved, fleshy and exceedingly tender pods. Matures a few days earlier than the Giant sort. Pt., 25c.; qt., 50c.; pk., \$3.50.

White Navy, or Boston Pea Beans—Yields large quantities of white shell beans, which are used for baking. Pt., 20c.; qt., 40c.; pk., \$2.50.

We furnish 5c. and 10c. packages of all Beans.

WAX POD VARIETIES

Currie's Rust-Proof Black Wax—Valuable for general use, being early, hardy, and a heavy yielder. Extra long flat pods of fine color and not apt to rust. Pt., 25c.; qt., 50c.; pk., \$3.00; bu., \$10.00.

Dwarf Black Wax—Pencil pod strain. It is so good that it is worthy of special notice. The pods are round, brittle, of handsome golden yellow color, and of buttery flavor when cooked. Pt., 25c.; qt., 50c.; pk., \$3.00.

Round Pod Kidney Wax—This mid-season variety is exceedingly handsome and very desirable, especially for snaps for the home garden. Vines dwarf, spreading and very productive. Leaves roughened. Pods long, slightly curved, light yellow, wax-like, stringless and of the best quality. They are uniformly perfect, an ill-shaped one being rarely seen. Seed long, cylindrical, medium-sized, nearly white, with a little dark marking about the eye. Pt., 25c.; qt., 50c.; pk., \$3.50.

Farmogerm for Garden Peas—Means bigger crops, healthier vines, early and more continuous crops. Per trial bottle 25c. and 50c.; \$2.00 per acre bottle. It will pay you to use this when you plant peas and beans. (See index.)

Davis White Kidney Wax—Pods remarkably straight, long and handsome, waxy white color; enormously productive; seed white. Pt., 25c.; qt., 50c.; pk., \$3.00.

Wardell's Kidney Wax—In growth of vine and productivity this variety exceeds any other wax-podded bean. The long flat pods are of handsome appearance and usually free from rust. Pt., 25c.; qt., 50c.; pk., \$3.00.

Improved Golden Wax—Small plants of erect growth, bearing flat, thick pods about 5 inches in length, and of excellent quality. An early and reliable variety, recommended for home use. Pt., 25c.; qt., 50c.; pk., \$3.00.



Improved Golden Wax

POLE BEANS (Ger. Stangen Bohnen)

Culture—Same as Pole Lima.

Yard Long, or Snake Beans—This is an ornamental as well as useful pole bean. Producing an abundance of dark green foliage and stringless green pods, often measuring from two to three feet long, which, when cooked, make a delicious dish. Seeds very small. Pkt., 5c. and 10c.; 1 oz., 25c.

Horticultural—Pods green, dashed with red when beans are matured. Very showy. Pt., 20c.; qt., 40c.; pk., \$2.50.

Kentucky Wonder, or Old Homestead—The most popular of the pole varieties, and should be in every garden where beans are planted. It grows luxuriantly and bears for a long period. Pods are very long, very fleshy and deeply creased or saddle backed, green in color and stringless. Seed light brown. Pt., 25c.; qt., 40c.; pk., \$2.50.

M. & S. Kentucky Wonder Wax—Same as above with exception of beautiful yellow pods. Pt., 25c.; qt., 50c.; pk., \$2.75.

Lazy Wife's, or White Cherry—Pods six to eight inches long, entirely stringless, of a rich, buttery flavor when cooked as a snap bean; also a good, white shell-bean for winter. One of the very finest flavored. Pt., 25c.; qt., 40c.; pk., \$2.50.

BUSH LIMA BEANS

1 qt. to 100 feet of drill.

Culture—Plant in rows two feet apart, and about one foot apart in the rows.

Burpee's Bush Lima—The true bush form of the old large lima. Pt., 20c.; qt., 35c.; pk., \$2.25.

Henderson's Dwarf Lima—Beans are small, but their flavor is excellent. Pt., 20c.; qt., 35c.; pk., \$2.25.

Dreer's Bush, or Potato Lima—Produces a medium size thick bean of fine quality. Pt., 20c.; qt., 35c.; pk., \$2.25.

Burpee's Improved Bush Lima—Pods are truly enormous in size, abundantly and well filled with handsome beans, which are both larger and thicker than those of the popular Burpee's Bush Lima. Pt., 25c.; qt., 40c.; pk., \$3.00.

Fordhook Bush Lima—Similar to Dreer's, but large and superior, bearing in clusters of from four to eight, averaging four large beans to the pod. Pt., 25c.; qt., 40c.; pk., \$3.00.

ENGLISH, OR BROAD WINDSOR BEANS (Ger. Sau, oder Grosse Bohnen)

Culture—Same as Bush Lima, only plant thinner. A bean similar to Lima Beans, but different flavor and larger. Should be planted early, as they are very hardy. Pt., 25c.; qt., 40c.; pk., \$2.00.

We furnish 5c. and 10c. packages of all Beans.

POLE LIMA BEANS

Culture—These require pole eight to ten feet long. The beans should be planted in May if the season is suitable. Set poles four feet apart each way, and plant four to six beans, about one inch deep, around each pole. Thin out to three plants to a pole, if the soil is rich; pinch off the ends of plants when they overrun the top of the poles to effect more perfect growth below. Lima Beans for early use may be grown in frames and transplanted. 1 qt. to 100 poles.



King of Garden Pole Lima Beans

Ford's Mammoth Podded—Pods contain from five to seven beans; vine grows vigorously, and bears until frost. Pt., 20c.; qt., 30c.; pk., \$2.00.

King of the Garden—Vigorous grower, bearing large pods, five to eight inches long. Beans large and of rich flavor. Pt., 20c.; qt., 30c.; pk., \$2.00.

Dreer's Imp., or Potato Lima—Beans round and thick, delicious flavor, easy to shell, immense cropper. Pt., 25c.; qt., 35c.; pk., \$2.75.

Siebert's Early Lima—Very fine, immense beans, which retain their color a long while. Pt., 20c.; qt., 30c.; pk., \$2.00.

TABLE BEETS (Ger. Salatruene)

One ounce of seed sows sixty feet of drill; five pounds will sow an acre in drills.

Culture—The soil best suited to the culture of the beet is that which is rather light, provided it is thoroughly mixed with manure. If wanted very early, sow in hotbeds and transplant; but for main crop sow in the Spring as soon as the ground becomes fit to work, in drills 18 inches apart and two inches deep. For winter use sow as late as June. When the plants have attained three or four inches in height, thin out so that they stand five or six inches apart. Keep free from weeds. Before freezing weather sets in, the roots may be stored in cellars or pits, same as Potatoes; dry earth thrown over them before the straw and earth covering is put on insures their keeping over winter. Be careful not to bruise them in handling.

Extra Early Flat Egyptian—Maturing in an incredibly short time. Bulbs half globular, or flattened at the poles; roots very slim, skin smooth, leaves red and green, flesh quite dark. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 90c. (Fig. 5.)

Crosby's Improved Egyptian—Very desirable. Thicker in body than the Egyptian, small necked and dark fleshed. Fine for early market. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 90c. (Fig. 1.)

Extra Early Eclipse—Maturing in an incredibly short time, round-shape beet. Small top, and of excellent table qualities. Makes an attractive seller in market. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 90c. (Fig. 4.)

Edmand's Blood Turnip—This beet of American origin, is the most uniform of all Turnip Beets. The root is always smooth, round and handsome, tops small, of good marketable size. Color dark red, flesh purplish red, crisp, tender, and sweet. An excellent keeper. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 90c. (Fig. 7.)

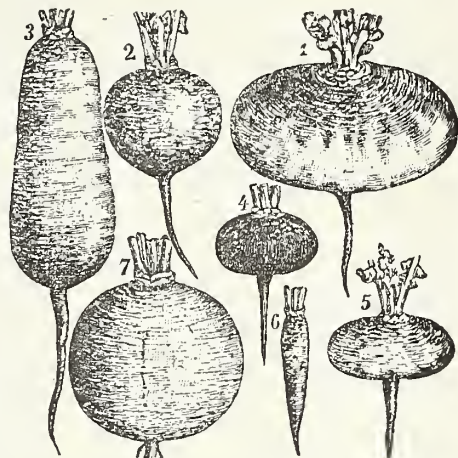
Detroit Dark Red—(Fig. 2.) Blood-red, early, turnip-shaped variety. Has small, upright tops; fine round shape. Skin and flesh dark blood-red. Very tender and sweet. Remarkably uniform in growth, and a particularly desirable sort for truckers and market gardeners. Pkt., 5c.; oz., 10c.; ¼ lb., 35c.; lb., 1.25.

Long Smooth, Dark Blood—(Fig. 6.) This variety has long, slender roots. The beets are seldom more than two inches

through. Matures rather late, but is an excellent keeper. The flesh is dark red and quality sweet and tender. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 75c.

Crimson Globe—A second early variety, does not grow large and coarse, the matured beets being medium in size and of good shape. The flesh and skin are both very dark and quality fine, being sweet and tender. The tops are small and dark in color. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Swiss Chard, or Spinach Beet, Giant Lucullus—The leaves of Swiss Chard are used as greens, cooked in the same manner as spinach, and the large ribs are prepared like asparagus, in which manner they are delicious. Giant Lucullus is the largest and best variety of Swiss Chard, and you should not fail to plant at least one long row in your garden this Spring. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 90c.



BEET (Mangel-Wurzel) (Ger. Runkelruhen)

Used for feeding cattle. Sow five pounds per acre.

Culture—Sow in April and May in thoroughly plowed, well-manured soil, in drills two inches deep and about 18 inches apart. Thin out to 12 inches and keep the weeds down by frequent hoeing and cultivating. Low ground is best adapted for Mangel-Wurzel.

An ever-increasing acreage is being planted for stock beets, because of the wonderful results by feeding them as shown by the reports of our Experiment Stations and leading farmers and stockmen. Fattening, breeding and milk cattle do equally well on them. About one-fourth of the daily rations should be of roots. Hog cholera is prevented by their use. Where many are grown a good drill and cultivator are needed. Five pounds sows an acre.

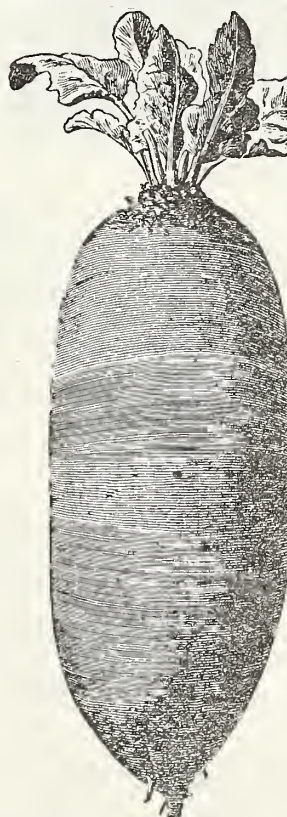
Jumbo Mangel—Immense, long, red, very fine quality. Oz., 5c.; ¼ lb., 15c.; lb., 50c.

Sludstrup Barres Mangel—Recently introduced from Denmark. The finest, largest and most prolific Mangel in existence. Half-long, stump-rooted, yellow flesh. Outside color orange with red top. Oz., 5c.; ¼ lb., 15c.; lb., 50c.

Gate Post Mangel—Large, yellow, excellent sort. Oz., 5c.; ¼ lb., 15c.; lb., 50c.

Mammoth Long Red—This is an enormously productive variety, yielding from 50 to 70 tons to the acre, a single root often weighing from 20 to 40 pounds. It is the best long red mangel and very valuable for stock feeding. Oz., 5c.; ¼ lb., 15c.; lb., 45c.

Golden Tankard—(Fig. 3.) The best long yellow mangel in cultivation. Relished by milch cows and sheep. Maturing earlier than other large sorts. Oz., 5c.; ¼ lb., 15c.; lb., 45c.



Sludstrup Barres Mangel

Improved White Sugar Beet—An improvement on the other varieties of sugar beets, hardier, and containing a greater percentage of sugar. Oz., 5c.; ¼ lb., 15c.; lb., 50c.

CABBAGE (Ger. Kopfkohl)

One ounce will produce about 2500 plants; one-quarter pound for transplanting an acre.

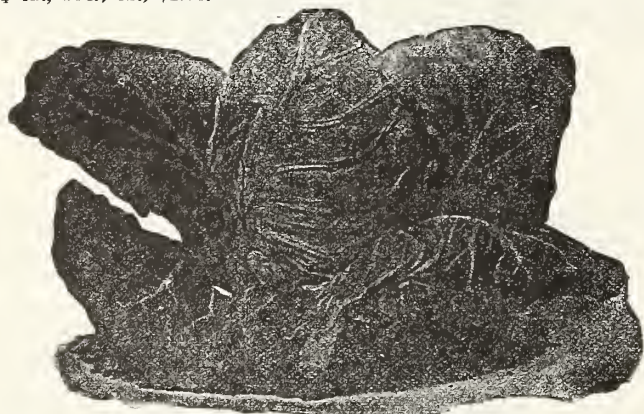
Culture—Sow seeds in January or February in hotbeds, and transplant latter part of April or early in May to open ground, or an early sowing in open ground can be made as soon as weather will permit. Set the plants in rows two feet apart, and 12 to 18 inches apart in the row. For second early sow in April and transplant in May, or sow in May and transplant in July, setting plants in rows three feet apart and two feet in rows. Never plant in the same ground two years in succession.

Our Cabbage Seed is all grown from selected heads only, by a specialist on Long Island.

EARLY VARIETIES

Copenhagen Market—A valuable new early cabbage from Denmark, producing a large globe shape head, which comes into market along with Charleston Wakefield. It is well known that Denmark is a great cabbage and cauliflower country, and our seed comes direct from the originator. Produces fine, large heads uniform in shape and size and very solid, with few loose leaves. It is a vigorous grower and an excellent keeper. We have grown it for two years on our trial grounds where it excited great admiration. Pkt., 10c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.00.

New Early—The largest of the early cabbage. The head is roundish flat and remarkably solid. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.



Early Jersey Wakefield Cabbage

Early Jersey Wakefield—The finest oblong shaped cabbage in existence. The head is solid, there being very few outside leaves. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

Large Charleston Wakefield—Similar to Early Jersey, but the heads are more blunt, equally as solid, while it grows almost twice the size, but matures one week later. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.75.

Early Flat Dutch—A dwarf-growing type, principally used for early summer. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

Early Winnigstadt—Resembles the Early Jersey Wakefield somewhat, but the heads are more pointed and not so early. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.75.

SECOND EARLY VARIETIES

Early Drumhead—A large solid roundish flat-headed sort with few outer leaves. One of the best sorts to follow the Large Charleston Wakefield. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

Henderson's Early Summer—The leaves have a more bluish cast than the other cabbages; the heads are roundish flat. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

Succession—A very popular sort with the market gardeners. It matures about 10 days later than Early Summer. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

LATE, OR WINTER VARIETIES

All seasons. (Vandergaw)—A very large seed, round and solid. It is valuable for Summer or Winter use. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

Gentlemen: It affords me great pleasure to let you know that the garden seeds which I have bought from you the past three seasons have given me better satisfaction than any other I have ever purchased. Yours truly,

N. E. OFFUTT, Cockeysville, Md.

Danish Ballhead—An elegant medium late variety. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

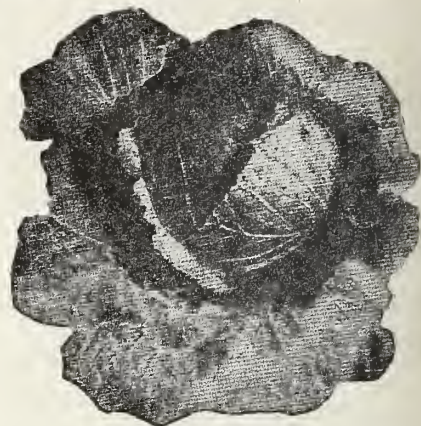
Late Flat Dutch—(Improved Strain.) This has been selected especially for our trade, and seed was taken from the finest type of heads which were selected for solidity and uniformity. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.50.

Large Late Drumhead—Much like the above except the heads are not quite as large nor as flat. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

Perfection Drumhead Savoy—A beautifully crimped - leaved sort, color a deep glossy green. The head is almost round. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.75.

Red Dutch Drumhead—A red variety, used extensively for pickling. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

Volga—The heads often weigh 12 to 15 pounds. The interior is pure white. The heads are very solid. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.



Red Dutch Drumhead

M. & S. FROST-PROOF CABBAGE PLANTS

WILL MATURE HEADS TWO TO THREE WEEKS EARLIER THAN YOUR HOME GROWN PLANTS AND DOUBLE YOUR PROFITS

To get the advantage of these Frost-Proof Cabbage Plants they must be planted a month or six weeks earlier than you would plant home-grown plants.

These Frost-Proof Cabbage Plants will stand a temperature of 8 to 10 degrees above zero without injury, the land freezing, or the plants being covered with ice, sleet or snow after they are planted will not injure them.

Our cabbage plants are grown from the best Long Island grown seed and are shipped direct from our growing station in South Carolina or Louisiana by parcel post or express. We can fill orders from December 1st to May 1st.

The plants when received will be somewhat wilted and have a hard stunted appearance, which will be disappointing to persons who have never used these plants before. Regardless of appearance, they will produce the crop results. We guarantee good order delivery.

VARIETIES: EARLY JERSEY WAKEFIELD, CHARLESTON, LARGE TYPE WAKEFIELD, SUCCESSION AND EARLY FLAT DUTCH

Prices by parcel post, postage paid, 35c. per 100 plants to all places in the postal union. On larger quantities the prices are as follows:

500 plants, \$1.25; 1000 or more at \$2.20 per 1000.

Prices by express, buyer paying charges, which under special rates are very low. 500 for \$1.00. In lots of 1,000 to 4,000 at \$1.50 per 1,000. 5,000 to 8,000 at \$1.25 per 1,000. In lots of 10,000 or over at \$1.00 per 1,000.

Plants are packed for parcel post shipment either 100, 250, 300, 400, 500 or 1,000 plants to package. For express shipment, 500 or 1,000 plants to package. Order in these quantities. They weigh 15 to 20 pounds per thousand plants packed for shipment.

Terms: Cash with Order—No plants shipped C. O. D. We advise that you have all shipments of two thousand plants or less sent by parcel post. They make quicker time, are delivered by the mail carrier, and save you the time of going to the express office for the shipment. On larger lots inquire of your express agent what the charges will be. To a great many points the parcel post rates are as low or lower than the express rates. When rates are near the same always order by parcel post, as time and service is better.

Early Sorts—From hotbeds. All the leading varieties ready April 1st. 10c. doz., 40c. 100 (by mail 15c. and 55c.), \$3.00 1,000.

Late Sorts—Ready July 1st. 40c. 100, \$3.00 1,000.

CELERY OR CHINESE CABBAGE

Pe Tsai—Improved Chinese Cabbage. The market appearance of this cabbage in quantity the past two years has created a widespread demand for the seed. It is very easily grown and does well in nearly all parts of the country. It should be grown like a late cabbage, planting in July (turnip planting time), as early plantings run quickly to seed. The seed is sown in drills 16 to 20 inches apart and the seedlings thinned two or three times. The full grown plant somewhat resembles a Cos Lettuce in appearance. It has a mild flavor and may be eaten raw or as a salad, or cooked. Boiled minced and seasoned with butter, it is especially delectable. **Pkt., 5c.; ½ oz., 25c.; oz., 45c.; 2 oz., 75c.; ¼ lb., \$1.25; lb., \$4.25.**

CAULIFLOWER (Ger. Blumenkohl)

One ounce of seed to 1,500 plants.

Culture—When grown to perfection this is a most delicious vegetable, and well repays generous treatment in cultivation. With a deep rich soil, and an abundance of moisture, which in dry seasons must be applied artificially, Cauliflower can be grown well. The cultivation is similar to that of Cabbage. For early Fall crops, sow in May and transplant in June, in rows four feet apart, setting the plants two feet apart in the row; water frequently if the ground is dry. Frequent hoeing and a liberal supply of rich, liquid manure, to keep up a continuous and rapid growth, will produce splendid heads of the most delicate flavor. It facilitates blanching if the leaves are



withered loosely together and tied over the top of the head to protect it from the sun. Cut before the flowers begin to open. Sow as late as June 20 for late crops, in beds or in hills, covering one-half inch deep.

Dry Weather or Danish Giant—The great drought resisting variety; the heads are large, snow white and are protected with a liberal growth of foliage. This is the ideal variety to plant for summer use if you want to be sure of cauliflower at all season. **Pkt., 10c.; 25c., 50c.; \$2.00 per oz.**

Early Snowball—An extremely early dwarf variety, producing magnificent white heads of fine quality. Well adapted to forced culture. **Pkt., 10c., 25c. and 50c.; oz., \$1.50.**

Select Early Dwarf Erfurt—Of highest excellence, and for forced culture not much surpassed by any type of newer name. Its so-called new varieties appear to be identical with Select Erfurt. **Pkt., 10c., 25c. and 50c.; oz., \$1.50.**

Veitch's Autumn Giant—A distinct and valuable late variety; large and fine, well protected by foliage. **Pkt., 5c. and 10c.; oz., 50c.**

CAULIFLOWER PLANTS

Early Snowball—Ready in April. **20c. doz., 60c. 100 (by mail, 75c. and 75c.); \$5.00 1,000.**

CORN SALAD (Ger. Acker Salat)



Large Leaved Corn Salad

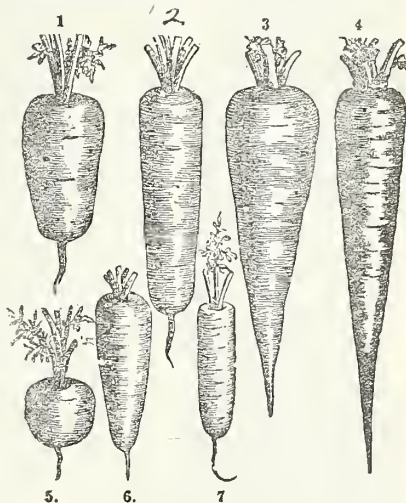
Culture—Sow in Spring, in drills one foot apart; it will mature in six to eight weeks. For Winter and early Spring use, sow in drills in August and September.

Large Leaved—
Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

CARROT (Ger. Moehre, oder Gelbe Ruebe)

One ounce to 100 feet of row. 2 or 3 lbs. to the acre.

Culture—A light, loamy soil that has been well manured the previous year is preferred for growing Carrots, although good crops may also be obtained from ordinary garden soil. For early use seed may be sown in hotbeds from January until March, and in the open ground as soon as the weather becomes warm and settled, usually in April. Sow seed one-half inch deep in rows 15 inches apart, and later thin to five inches in the row. Keep soil hoed and free from weeds. From July 1st to 15th sow for Winter crops.



Pride of the Market—An ideal medium early, stump-rooted Carrot; smooth and uniform in shape, averaging five inches in length, with thick, heavy shoulders, rather large tops and deep orange color. **Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.**

Parisian Forcing—(Fig. 5.) Extremely early, of small size, but very sweet, tender and beautiful orange red color. **Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.**

Chantenay—(Fig. 2.) Top medium sized, neck small, roots tapering slightly but uniformly stump-rooted and smooth; color deep orange-red; flesh very crisp and tender. Although this is a medium early sort, it furnishes roots of usable size as early as any, is a heavy cropper, and is undoubtedly one of the best for both the market and private garden, and its great productiveness makes it desirable as a field sort. **Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.**

Danvers, or Half-Long Orange—(Fig. 6.) Owing to its enormous yield, this variety is the best and most profitable for main crop, also desirable for feeding cattle. It is somewhat longer, thicker and a better keeper than the Chantenay. **Pkt., 5c., oz., 10c.; ¼ lb., 30c.; lb., \$1.00.**

Guerande, or Oxheart—(Fig. 1.) A short thick carrot not exceeding four inches in length and about the same in width which does quite well on hard, heavy soils where the longer varieties are useless. **Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.**

Intermediate (St. Valery)—(Fig. 3.) Matures earlier than Long Orange Improved; has shorter and broader roots which gradually taper to a point. Valuable for feeding stock. **Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 90c.**

Long Orange Improved—(Fig. 4.) The longest and latest of all carrots; unsurpassed for its keeping qualities. Fine for feeding stock. **Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.**

SWEET, OR SUGAR CORN

(Ger. Zucker Mais)

One quart will plant 200 hills; eight to ten quarts in hills to acre.

Culture—The Sweet or Sugar varieties, being liable to rot in cold or wet ground, should not be planted before May, or until the ground has become warm; for a succession, continue planting every two weeks, until the middle of July, in rich, well-manured ground, in hills three feet apart each way, covering about half an inch, and thin out to three plants to a hill. Extra early varieties can be planted 18 inches in the row and 2½ feet between the rows. The field varieties should be planted four feet apart each way, leaving three plants to a hill.

Extra Early Adams—Height of stalk three to four feet, ears set within six inches of ground. Not a sugar corn, but a decided acquisition so early in the season. **Pt., 25c.; qt., 40c.; pk., \$2.00.**

Early Adams—Similar to Extra Early Adams; larger, but not so early. **Pt., 25c.; qt., 40c.; pk., \$2.00.**

Country Gentleman—A short-stalked, productive sort. Ears large for so small a stalk; grain narrow and very deep; excellent quality. **Pt., 25c.; qt., 50c.; pk., \$4.00.**

Shoe Peg, or Ne Plus Ultra—Very similar to the above. **Pt., 25c.; qt., 50c.; pk., \$4.00.**

SUGAR CORN—Continued on next page

Mr. John H. Bowen, Pikesville, Md., says: "Your King of the Garden and Dreer's Pole Lima Beans gave me the best crop of Lima Beans that I have had in my seven years' experience of farming."

SUGAR CORN—Continued

Red Cob, or 90-Day Corn—A distinct and well-known sort of white corn; matures in about 90 days; produces large, handsome ears. $\frac{1}{4}$ pk., 35c.; pk., \$1.50.



Snow White Evergreen
Sugar Corn.

Snow White Evergreen Sugar Corn—It produces large uniform ears, which are well filled to the top with beautiful white kernels; it is 10 to 12 days earlier than Stowell's Evergreen. Splendid sort for market and home garden; keeps well after being cut. Pt., 25c.; qt., 50c.; pk., \$3.00.

Peep-O-Day—This corn has two valuable points—extraordinary earliness and unsurpassed sweetness. It may be used for early or late planting with equal success; claimed to be the most prolific variety. Pt., 25c.; qt., 50c.; pk., \$3.00.

Golden Bantam—Extremely early. A true sugar corn. The grain when ripe is a bright golden-yellow, the flavor is exceptionally rich and sugary. Produces from two to three good ears to the stalk. Pt., 25c.; qt., 50c.; pk., \$3.00.

Black Mexican—An old favorite, being very tender and sweet. Pt., 25c.; qt., 50c.; pk., \$3.00.

Premo—One of the finest early that grows. Pt., 25c.; qt., 50c.; pk., \$3.00.

Early Sheffield—A splendid variety to come in between early and late sorts, and is destined to become as popular as Stowell's Evergreen. Pt., 25c.; qt., 50c.; pk., \$3.00.

Early Mammoth—Large ear, and early; splendid early market sort. Pt., 25c.; qt., 50c.; pk., \$3.00.

Stowell's Evergreen—Matures for table in about 80 days from germination. One of the sweetest, ears large, deep grained, of excellent quality, remaining green longer than any other variety. Pt., 25c.; qt., 50c.; pk., \$3.00.

Stowell's Evergreen on Ears—Each, 10c.; doz., 75c.

Late Mammoth Sugar—Matures for table. Takes 85 days to reach maturity for table. The ears are very large and showy. Pt., 25c.; qt., 50c.; pk., \$3.00.

CUCUMBER (Ger. Gurke)

One ounce will plant fifty hills; two pounds, one acre.

Culture—For very early Cucumbers, sow the first of April in a hotbed, upon pieces of sod or in small pots, so that they can be readily transplanted to the open ground (in rich soil) when danger of frost is over. For general crop plant, if the weather has become settled and warm, in hills about four feet apart each way; thin out to four of the strongest plants to each hill. They succeed best in a warm, moist, rich, loamy soil. For succession sow until the middle of August.



Early Fortune Cucumber

Early Fortune—A great favorite with our Anne Arundel County farmers for its early maturity productiveness, uniformity in large size and dark green color. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

New Klondike—One of the best for shippers. Grows vigorous vines, fruits early and abundantly. Dark green in color, large size, and of fine flavor. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

Mrs. Catherine Driver, Lansdowne, Md., tells us that she never had such fine Cabbage as she grew from our Succession and Copenhagen Market Cabbage Seed in her long experience of trucking. She also says: I pulled 250 bunches of Long Orange Carrots on July 8th from a $\frac{1}{4}$ pound of your seed planted April 1st.

Improved Early White Spine—The old standard favorite. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c. Special prices on large quantities.

Arlington White Spine—Another standard sort. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c. Special prices on large quantities.

Improved Long Green—Long and crisp; a popular and reliable variety for pickles. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

Jersey Pickle—Productive and said to "green" better than any other variety, and to "hold color." Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

Livingston's Evergreen—A very strong grower, very early, bears firm, crisp fruit, which is excellent for slicing or pickling. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

Early Green Cluster—A short, prickly variety, bearing clusters, prolific. Fine for bottle pickles. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

Small Gherkin, or Burr—Used only for pickling while young and tender. Pkt., 5c. and 10c.; oz., 25c.

Danish Pickling Cucumber—A new introduction from Denmark. Seeds extremely scarce. A very prolific grower producing small dark green warty fruit, especially desirable for pickling. Sold in 25c. packages only.

Japanese Climbing—Distinct from other varieties, being a real climber. Very prolific of fruit. A valuable interesting novelty. Pkt., 5c. and 10c.; oz., 20c.

English Forcing Telegraph Cucumber—These are ideal for growing outdoors as well as under glass. They produce enormous fruits, generally 18 to 24 inches long and 3 inches in diameter. They have a delicate flavor and possess very few seeds; for slicing, no other sorts can approach them. Pkt. of 12 seeds, 25c.; 100 seeds, \$1.25.

CELERY (Ger. Sellerie)

One ounce will produce about 2000 plants.

Culture—Sow the last of March or early in April, in an open border, in rich, mellow ground, in shallow drills, watering freely in dry weather. By rolling or pressing in the seed the result will be more satisfactory than when covered. Cut the tops off once or twice before planting out, to make them stocky. When the plants are five or six inches high transplant the dwarf varieties three feet, and the taller sorts four feet between the rows; plant six inches apart in the rows. Cultivate well, and when large enough, blanch by earthing-up. The first operation is that of "handling," generally done the beginning of September; after the soil has been drawn up with the hoe it is drawn closer around each plant by the hand to keep the leaves firm, in an upright position, and to prevent spreading. When the plants have become set in an upright position the Celery wanted for early use should be banked, by throwing the soil up as close to the plants as possible with a plow and finishing it with a spade, bringing the earth up nearly to the tops of the plants.

M. & S. Monarch—This variety is a decided acquisition in green Celery, producing large stalks, and magnificent bright golden yellow heart. The stalks are very solid, brittle, and of most delicious flavor, and entirely free from stringiness. It is a remarkably good keeper and presents a handsome appearance when ready for the table. Pkt., 10c.; oz., 25c.; $\frac{1}{4}$ lb., 75c.

M. & S. Magnificent—It is well named for its many good qualities; it is a semi-late sort, coming into use about January. The stalks which blanch almost white are exceedingly brittle, so that it has a tendency to melt in the mouth; it is a truly good sort and should be planted extensively. Pkt., 10c.; oz., 25c.; $\frac{1}{4}$ lb., 75c.

French Golden Self-Blanching—For early use; preferred by many to all other sorts; as self-blanching as white Plume, and simply needs a slight earthing-up. The entire plant is an attractive yellowish green, and approaching its maturity the inner stems and leaves become a beautiful waxy golden color. Grows to a good size, very tender, crisp and solid, and when well grown is of excellent quality and very beautiful. Seed supply very limited. Pkt., 10c. and 25c.; oz., \$1.25.

White Plume—Unsurpassed for Fall and Early Winter use requiring very little earthing-up to blanch it. Pkt., 5c. and 10c.; oz., 20c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.50.



French Golden Self-Blanching
Proven Seed

Giant Pascal—The stalks are very large, thick, solid, crisp and of a rich, nutty flavor; it blanches very easily and quickly, and retains its freshness a long time. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

Golden Heart—Largely used, always giving satisfaction; a showy sort; solid, of fine flavor and a good keeper. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

Boston Market—A short, bushy, white, solid, excellent flavored market variety, constantly increasing in demand. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

Winter Queen—This variety grows a very thick, solid and heavy stalk, and has a large heart. It is a close, compact grower, and when blanched is a creamy-white color. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

Victory—Runs a close second to the above, very similar. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

Celery Plants—Ready in July. 50c., 100., 1,000, prices furnished on application.



CELERIAC, OR TURNIP-ROOTED CELERY

Giant Prague Celery—(Prager Riesen Selerie.) This is unquestionably the largest and best Celery in existence. The roots are very large, twice as large as the Erfurt, almost globe-shaped, smooth, with only a few roots at the bottom. Flavor is excellent. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

EGGPLANT (Ger. Eierpflanze)

One ounce will produce about 1,000 plants.

Culture—Eggplant seed will not vegetate freely without a strong, uniform heat, and if the plants get the least chilled in the earlier stages of growth they seldom recover. Therefore, repeated sowings are sometimes necessary.

Florida High Bush—The hot sun does not blight the blossom as in the case with some other sorts. It resists drought and bad weather to a wonderful degree, partly on account of its strong, upright growth. It bears its eggs or fruit sometimes two to four feet above the ground, thus escaping the ability of rot. Large size and good quality. Pkt., 5c. and 10c.; oz., 25c.; lb., 85c.

New York Improved Purple—The leading market variety; of large size, deep purple, smooth, free of blemishes; flesh white, of excellent quality; very productive. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 85c.

Black Beauty—The earliest large variety; color rich, dark purple. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 85c.



Black Beauty Eggplant

EGGPLANT PLANTS

Eggplant—Plants ready in May and June. Pot-grown, 50c. dozen, \$4.00 per 100. Drawn plants, 25c. doz.; \$1.25 per 100.

ENDIVE (Ger. Endive)

Culture—Sow in June, July and August; cover lightly; when thin out to eight inches apart, and water well afterward, dry. When the leaves are 6 or 8 inches long, blanch by gathering in the hand and tying together near the top with yarn or bast. This must be done when quite dry or they will rot. At the approach of winter, take up carefully, with a ball of earth to each plant, and place close together in frame or cellar for use. They must be kept dry and have plenty of air.



Green Curled—Tender and crisp. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.

White Curled—Self-blanching. Very tender when young; anchors readily. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.

Broad Leaved Batavian (Escarole)—This variety is chiefly used in soups and stews; it requires to be tied up for blanching. Pkt., 5c. and 10c.; 1 oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

WHITLOOF CHICORY, OR FRENCH ENDIVE

Whitloof Chicory, or French Endive—Known in restaurants as French Endive. The stalks when blanched make a delicious salad. It is used in Europe as a boiled vegetable. We want to get our customers interested in this delicious vegetable, and feel confident that after it has once been tried it will become quite as popular as Swiss Chard which was only planted very sparingly a few years ago. Every garden should have a row of Whitloof Chicory and we feel sure that every amateur or experienced gardener will be pleased with the results.

In order to grow good "Whitloof" the seed should be sown during April in the open ground, in drills 10 or 12 inches apart, in deep, rich soil. Allow the plant to grow until November, keeping free from weeds and watering if necessary. Then take up the roots and trim off the leaves to about 1½ inches from the neck, break off any shoots which may appear on sides of root, and shorten lower end so that all will be of a uniform length of 8 to 10 inches. Then plant in a trench 16 to 18 inches deep, placing the roots upright, about 1½ inches apart. This will leave the necks of the roots about 8 inches below the level of the ground. Fill up the trench with good, light, well-drained soil, and, if speedy growth of any portion of the crop is desired, it may be accomplished by covering with a layer of manure at least 16 inches deep. In about 4 to 5 weeks the leaves may be taken off and roots dug up. The blanched head is the edible portion, and should be cut off, leaving a portion of the neck attached to it. Whitloof is eaten raw or as a salad, and is also sometimes cooked like ordinary Endive. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 50c.



HERBS (Ger. Kraeuter)

Culture—Herbs delight in a rich, mellow soil. Sow seeds early in Spring in shallow drills, one foot apart; when up a few inches thin out to proper distances, or transplant. They should be cut on a dry day just before they come into full blossom, tied in bunches and hung up or spread thinly where they can dry quickly.

Borage—Pkt., 5c. and 10c.; oz., 15c.

Caraway—Seeds used to flavor bread. Pkt., 5c. and 10c.; oz., 15c.

Coriander—Pkt., 5c. and 10c.; oz., 15c.



Dill—The seeds are used as a condiment and for pickling. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Fennel—Pkt., 5c. and 10c.; oz., 15c.

Horchound—For medicinal purposes and flavoring. Pkt., 5c. and 10c.; ½ oz., 25c.

Lavender—For flavoring and perfumery. Pkt., 5c. and 10c.; oz., 25c.

Mint—This variety is the true spearmint used for making mint sauce and juleps, also in many other ways. The plants are hardy and when once established remain for years. Seeds, 25c. per pkt. Plants, 10c. each; doz., \$1.00; \$6.00 per 100.

Pot Marigold—Pkt., 5c. and 10c.; ½ oz., 20c.

Rosemary—Leaves are used for seasoning. Pkt., 5c. and 10c.; oz., 30c.

Rue—Pkt., 5c. and 10c.; oz., 20c.

Sage—For seasoning and dressing. Pkt., 5c. and 10c.; oz., 20c.; lb., \$1.50.

Summer Savory (Bohnen Kraut)—Used for flavoring. Pkt., 5c. and 10c.; oz., 15c.

Sweet Basil—For flavoring soups. Pkt., 5c. and 10c.; oz., 20c.

Sweet Marjoram—Leaves and ends of shoots used for seasoning. Pkt., 5c. and 10c.; oz., 20c.

Saffron—For medicinal and coloring purposes. Pkt., 5c. and 10c.; ½ oz., 15c.

HERBS—Continued on next page

Mr. Arthur Owens, Greenock, Md., says he has had the most magnificent garden from seeds purchased of us the past season.

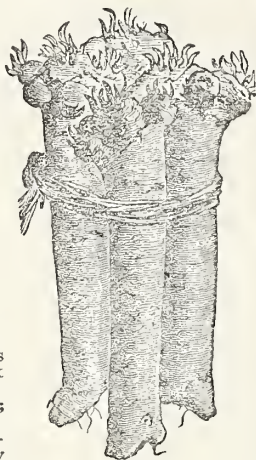
HERBS—Continued

Tarragon—This does not produce seed, but we offer choice plants. These are hardy if given plenty of protection in Winter. Do not plant them in an exposed place. Extra large plants, 50c. each (by mail, 60c.).

Thyme (Broad Leaf)—For seasoning, also for making tea for nervous headache. Pkt., 5c. and 10c.; oz., 30c.; lb., \$3.00.

Woodruff (Ger. Waldmeister)—A sweet-scented herb which is used as essence in the German Maitrank. Pkt., 15c.

Wormwood—Pkt., 5c. and 10c.; oz., 20c.

HORSE RADISH
ROOTS

(Ger. Meer-Rettig)

Ready March 1st. Extra strong roots will produce large size radish the first season.

Regular Variety—Doz., 15c.; 100, 50c.; 1,000, \$4.00.

Maliner Kren—A large quick-growing variety, which is now the very best horse radish grown. Doz., 25c.; 100, 75c.

KALE (Ger. Krauskohl)

One ounce sows a drill of about 100 feet. 2 to 3 lbs. to the acre.

Culture—Sow from May to June, and cultivate same as Cabbage. For early Spring use, sow in September, and protect during Winter.

The Kales are more hearty than Cabbage, and make excellent greens for Spring and Winter use, and are improved by frost.



Borecole—Hardy Winter

Borecole, Hardy Winter—This variety is grown and treated like cabbage. The plant attains a height of 18 inches, with an abundance of beautiful light green leaves which are densely curled and crimped. Besides being very hardy it possesses the advantage of all other varieties in forcing a second crop of moss-curved leaves as soon as the first ones are cut. This new growth is of the finest quality, and is ready for market during the Winter and early Spring months, when it demands fancy prices. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

Emerald Isle Kale—This is really the handsomest Kale that has ever come under our notice, and is entirely distinct from other strains. The closely curled, handsome leaves are most attractive. A fine exhibition plant of medium height. Very hardy. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 25c.; lb., 75c.

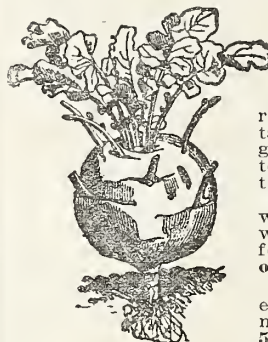
Dwarf German Kale—Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 25c.; 1 lb., 75c.

Tall Scotch—Best for Summer. Very spreading, nicely curled and hardy; frost improves it. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 25c.; 1 lb., 75c.

Mr. Joe Polaski, of Severn, Md., tells us that in his long experience of growing Cucumbers he has never had any Cucumbers as handsome as the ones that he raised from the new Klondike Seed which he purchased from us last season.

New Imperial Long Standing—The leaves are very crimp and of a dark green color. It stands quite tall and is an excellent producer. It is just as hardy as any of the other sorts, and will be found very profitable where quantity as well as quality is desired. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 25c.; 1 lb., 75c.

Dwarf Green Curled Scotch, or Norfolk—One of the most popular shipping sorts; very largely used in Norfolk trucking district. The leaves are of a bright green color, beautifully curled. Should be sown in rows in August and September. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 25c.; 1 lb., 75c.

KOHL-RABI
(Ger. Kohlrabi)

One ounce will sow 150 feet of drill

This is a favorite vegetable in Europe, where it is extensively grown for table use. The bulb is formed above ground, and, if used when young and tender, makes a most delicate dish for the table.

Earliest White Vienna—Greenish white outside, with clear white flesh within. Smooth, short leaf; good for forcing; fine quality. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

Earliest Purple Vienna—Same in every respect as the Earliest White Vienna, except in the outside color. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

LETTUCE (Ger. Salat)

Two ounces of seed to 100 yards of row; one ounce for 2,000 plants.

Culture—Lettuce is now sown during most all seasons of the year. For outdoor use the seed can be sown in well-manured hotbeds in February and March. Transplant there or outdoors when the weather will permit, in rows about 12 inches apart, 10 inches apart in the row. If the salad is not to head, sow thickly and cut as desired. For best results it is well to sow only the varieties best suited to the different seasons and conditions. For Winter use sow the seed in September in hotbeds and follow it with other sowings for succession.

Best of All—A great drought and heat resister; forms large compact heads of light green leaves and yellow heart. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 40c.; 1 lb., \$1.50.

Black Seeded Simpson Lettuce—Fine, large, loose heads, early, finely fringed and curled; very popular for family garden and forcing. Pkt., 5c. and 10c.; ¼ lb., 30c.; 1 lb., \$1.00.

M. & S. All-Right—For early Spring and Fall sowing. Produces beautiful light green heads, often 12 inches in diameter, very solid and with a rich buttery heart of light yellow. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 35c.; 1 lb., \$1.25.

Grand Rapids—Excellent for forcing, fine quality, large, loose, yellowish-green head, stands well. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 30c.; 1 lb., \$1.00.



M. & S. Belvedere Lettuce

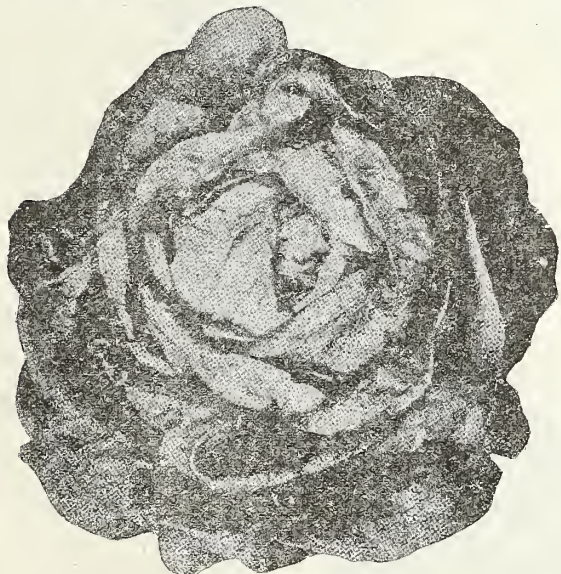
Romain White Parls Cos—Has long, narrow, upright leaves; does not head, but when tied up blanches very nicely. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

M. & S. Belvedere Lettuce—In 1912 we introduced this grand Lettuce after having it in our trial grounds for two seasons, and we were amply repaid by the success which our Truck Farmer customers had with it. The M. & S. Belvedere is extremely slow in running to seed; it is therefore the ideal lettuce to plant in the Spring, as it withstands the Summer heat better than any variety we have known so far. It is all green, no red edges, is tender and crisp and has a fine yellow heart. The seed is scarce, and we advise our customers to order quick. Pkt., 10c.; oz., 25c.; ¼ lb., 75c.; 1 lb., \$2.50.

California Cream Butter—A good Summer sort, of reliable heading quality. Yellowish-green, slightly marked with brown specks. This is a variety growing in favor. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 30c.; lb., 90c.

Improved Hanson—Large, compact, reliable header; outside leaves curled. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 30c.; lb., 90c.

Boston Market, or White-Seeded Tennisball—Early and compact, quite desirable, good forcer. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.



Big Boston Lettuce

Big Boston—Resembles Boston Market, but nearly twice as large, desirable for forcing and Spring and Fall outdoor planting. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

Oak Leaf—Quite popular. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 30c.; lb., 90c.

Improved White Leaf—Large, compact heads. Light-green color; tender and crisp. The best Winter lettuce to plant. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

Defiance—Leaves green, heads large, solid; one of the best large-growing cabbage lettuces. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

M. & S. Strain All-Season—A cabbage lettuce of sterling merit, making larger and more closely folded heads than any other known variety. The outer leaves are a bright, soft green, the inner ones rich golden yellow. The solid heads measure from eight to ten inches across. Black seed. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

May King—This valuable new lettuce from Germany is, without any question, one of the best lettuces on the list for early Spring planting in the open ground. The heads are six to seven inches in diameter, of a clear light green, the outer leaves being slightly tinged with brown, the inner being clear, bright yellowish, with very rich, oily flavor. It is an excellent market sort, the round, compact heads being so solid that they carry extremely well. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

Unrivaled—This grand new lettuce can be sown most any time, slow in running to seed; has beautiful green outside leaves and white heart and is tender and crisp. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

Lettuce Plants—10c. doz., 15c. postpaid; 40c., 100, 50c., postpaid; \$2.50, 1,000.

MUSKMELON, OR CANTELOUPE

(Ger. Melone)

One ounce will plant about 50 hills; two to three pounds in hills to acre.

Culture—Thrives best in light, rich soil. Plant early in May, in hills six feet apart. Manure in hill and sow seed freely. After danger from bugs is past thin to three plants per hill. When one foot long, pinching off tips makes vines branching

and strong, and fruit will mature earlier. Water freely and feed liquid manure occasionally. For early use, sow in hotbed, on piece of sod.



Rocky Ford Cantaloupe

Rocky Ford—We have a very fine stock of this popular cantaloupe. Small, oval, of excellent quality and a good shipper; early; green fleshed. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

Bottomly Cantaloupe—True Anne Arundel strain. Great favorite with the Anne Arundel County truckers. Medium size, round, deeply netted, green flesh and delicious flavor. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; 1 lb., \$1.50.

M. & S. Delicious Gold-Lined Rocky Ford Cantaloupe—This strain of the Eden Gem type is the result of several years selection by one of the most progressive farmers of Rocky Ford, Colo. Its shape is ideal, very slightly oval, no ribs, and it is heavily netted over the entire melon. The bloom button is small and flesh as thick at the end as elsewhere. The melon is thick meated, fine grained and sweet; color, green, with a gold margin next to the seed cavity. Our claim for this melon is its uniform shape, size and very superior quality. Its flesh is attractive and elicits favorable comment when served. Every seed we offer from this strain will be from a select melon and hand seeded. We recommend this seed for the use of Melon Growers' Associations and high-class Market Gardeners. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; 1 lb., \$1.50.

Early Netted Gem—One of the best of small melons, and very popular. Prolific and of excellent quality. Very early. A great favorite. Green fleshed. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

Emerald Gem—Small, green skin, delicious yellow flesh. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Acme, or Baltimore Nutmeg—A great favorite for retail market and for shipping. Large, oval, deeply netted, solid and of fine quality. Green fleshed. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

Jenny Lind—Very early, small, round, netted and of fine quality; green fleshed. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Hackensack, or Turk's Cap—A very fine, large sort; green fleshed. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Miller's Cream, or Osage—Melons are large and round, with light green, netted skin, and thick, sweet, salmon-colored flesh. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Knight Cantaloupe—True Anne Arundel County grown strain. The great favorite of the Baltimore market, of good size, deeply netted, green flesh, and delicious flavor. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

Banana—This melon surpasses all others in its delicious fragrance. The flesh (the melon being nearly solid) is of a rich salmon. The quality is first rate when the melon is thoroughly ripe. It grows from 20 to 28 inches in length and is very prolific. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.

Montreal Market—The large fruits are nearly round in form, slightly flattened at ends, with very large, broad, heavy ribs. Dark green skin, thickly covered with heavy netting. The flesh is two inches thick, light green, melting, and of delicious flavor. This is the variety which is grown exclusively on the Island of Montreal, and commands such high prices during the Fall months. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

IMPORTED VARIETIES FOR FORCING IN GREENHOUSE

Blenheim Orange—A favorite variety, scarlet flesh, good flavor. Pkt., 25c.

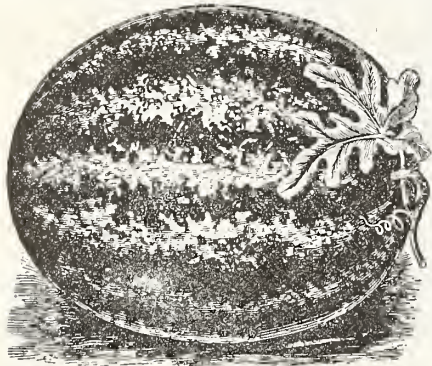
Windsor Castle—Green flesh, oval shape, finely netted, delicious flavor. Pkt., 25c.

WATERMELON (Ger. Wasser Melone)

One ounce for thirty hills; four to five pounds for an acre.

Culture—Watermelons should be planted in hills eight to ten feet apart. Otherwise for culture, see directions for cantaloupes. Do not grow them near pumpkins or gourds.

Monte Cristo, or Kleckley Sweet—Where sweetness combined with large size is desired this variety will surely please, as it not only produces melons above the medium size, but has that crisp, sugary flavor so much desired in a watermelon. It



Mountain Sweet

is the sweetest of all. Oval shape, skin dark green and somewhat mottled. The rind is thin, but sufficiently tough to stand carrying to nearby markets. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

Triumph—Large oval, handsome dark-green color, fine variety and of excellent quality. One of the finest melons ever introduced. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

Florida Favorite—Large, long, striped, excellent for family garden. Rind thin, but firm; flesh very deep red and very sweet. Splendid shipper. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

McIver's Wonderful Sugar—Resembles Old Rattlesnake, superior in quality. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

Gray Monarch, or Long White Icing—Very large, long, crimson flesh. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

Mountain Sweet—Popular sort; early and sweet. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

Dark Striped; Kolb's Gem—The great shipping melon. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 35c.

Tom Watson—This melon has created quite a furore wherever grown, and we believe is unquestionably the best quality shipping melon in our list. It has a dark green rind, solid red luscious meat, ripening close up to the rind. The rind is very tough, making it an excellent melon for shipping long distances. Its flavor and fine qualities also commend it very strongly for the private grower. It is the most popular melon on our list. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

Improved Georgia Rattlesnake—The Old Rattlesnake has always been regarded as a fine melon. Our strain is the result of careful selection by an experienced melon grower through many years of careful and watchful work. The rind is thin and tough, the flesh deep scarlet, the flavor unsurpassed by any other sort. We strongly recommend it both for shipping and home use. Our improved stock is very much superior to the ordinary Georgia Rattlesnake. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

Citron—Grows uniformly round and smooth, striped and marbled with light green. Flesh white and solid; seeds red. It should be borne in mind that this variety is not used for eating in the raw state, but for preserves, pickles, etc. Pkt., 5c.; oz., 10c.; lb., 60c.

MUSTARD (Ger. Senf)

White Mustard—For salads and culinary purposes. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

Brown Mustard—Stronger than above. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

M. & S. MUSHROOM—SPAWN (Ger. Champignonbrut)

Have you ever raised Mushrooms or are you trying to and not meeting with success? The Spawn we offer is the best obtainable, and with each purchase of same we give away, when desired, a complete guide on Mushroom culture, which otherwise sells for 35c.

The ever-increasing demand for this delicacy for hotels and the home table has resulted in the establishment of many successful commercial growers.

Gentlemen—I think it may be of some interest to you to know that I have had wonderful results with your pure culture Mushroom Spawn. Most respectfully,

Culture—Mushrooms can be grown in cellars, sheds, hotbeds, and sometimes in the open air. Fermenting horse manure, at a temperature of about 70 degrees and mixed with an equal weight of fresh sod loam, is made into beds the required size, eight inches deep. See to it that the bed is packed solidly and evenly. In this bed plant the broken pieces of Spawn six inches apart, covering the whole with two inches of light soil, and protect from cold and rain. One brick will plant eight or ten feet of bed. The Mushroom will appear in about six weeks. Water sparingly with lukewarm water. Estimate one brick for about eight square feet of bed.

Prices for direct bricks, Pure Culture Spawn (if ordered to be sent by Parcel Post, include postage, according to zone; a brick weighs 1½ lbs.) 1 brick, 25c.; 5 bricks, \$1.10; 10 bricks, \$2.00; 25 bricks, \$4.25; 50 bricks, \$8.00; 80 bricks, ½ case, \$12.00; 160 bricks, full case, \$22.40; latter two f. o. b. growing station.

Mushroom, or Hot Bed Thermometers—Heavy brass point style. Price, \$1.50. Parcel post weight, 2 lbs.

Book on Growing Mushrooms—Postpaid, 25c.



OKRA, OR GUMBO (Ger. Safran)

Four ounces to forty feet of drill.

Culture—Sow the seed thickly in rich ground about the middle of May, or when the ground has become warm, in drills three feet apart, one inch deep; thin to 10 inches apart in drills.

Grown for its green pods, which are used in soups, stews, etc., to which they impart a rich flavor, and are considered nutritious.

White Velvet, or Lady Finger—Bears round, white, smooth pods, unlike other varieties, which are ridged or square edged. The pods are of extra large size, and are produced in great abundance. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

Improved Dwarf Green Prolific—Of dwarf growth, but immensely productive and very early. Short, thick, green pods. Home grown seeds of superior quality. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Perkins' Mammoth Podded—A distinct, valuable new okra. Its productiveness is simply wonderful. The pods shoot out from the stalk within three inches of the ground, and the whole plant is covered with them to the extreme of its height. The pods are of an intense green color, of unusual length—eight or nine inches—and do not get hard, as is the case with other okras. Very superior for canning. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.



Improved Dwarf Green Prolific Okra

ONION (Ger. Zwiebel)

American Grown Seed. One ounce for 100 feet of drill; six pounds for one acre.

Culture—For sets, sow the seeds early as possible in the Spring, very thickly, in drills. As soon as the tops dry off in the Summer, remove them to a dry, airy place, and early in the following Spring re-plant by placing the sets in shallow drills 12 inches apart and about four inches apart in the drills; the Onions of this process obtained are of a large size early in the season. They may also be grown to full size during the first season by sowing thinly in drills one foot apart and about one-quarter inch deep in March or early April, in strong land, well manured, and thinning them out to stand three or four inches apart in the drills.

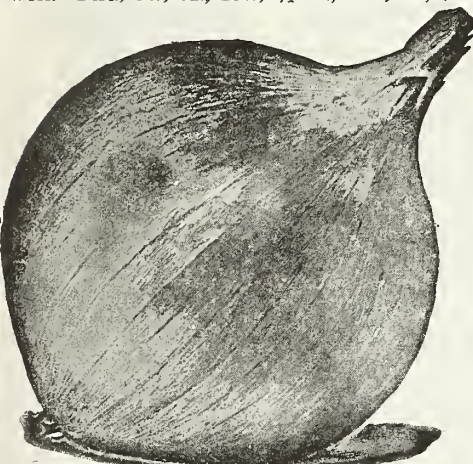
By sowing Onion Seeds in frames in February or March, and transplanting in April, Onions of immense size can be obtained. Use Pritzaker or Bermuda varieties for this.

Yellow Globe Danvers—One of the most extensively used yellow onions. Bulbs of medium size, uniformly globe shaped, with small neck, and ripen very evenly. Flesh white, crisp, and of mild and excellent flavor. We have developed a strain which has the ripening habit and small neck of the original Danvers and yet is more globular, thus giving larger yields and handsomer bulbs without sacrificing any of the good qualities of the Original Danvers. Pkt., 5c.; oz., 10c.; ¼ lb., 40c.; lb., \$1.50.

MRS. J. J. GEORGE, Long Green, Md.

White Silverskin—Ripens early; of large size, mild in flavor and excellent for Winter use; much esteemed for pickling when small. Pkt., 5c. and 10c.; oz., 15c.; $\frac{1}{4}$ lb., 60c.; lb., \$2.50.

Large Red Wethersfield—Grows to full size the first season from seed; almost round, large size, deep red color, and keeps well. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.50.



Prizetaker Onion

Prizetaker—This is the large, pale yellow onion that is offered for sale in fruit stores and markets in the Fall. It grows to a very large size; flesh white, of mild and delicate flavor. The large onions are raised first year from seed, and with ordinary culture produce enormous crops. The onions sometimes go over three pounds each in weight where good soil and culture is given them. Our seed is pure and genuine. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.75.

Australian Brown—The bulbs grow to a good marketable size, and are very hard and solid. They ripen earlier than either Yellow Danvers or Red Wethersfield, are beautiful brown color and mild flavor. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 60c.; lb., \$2.00.

Chives Seed—Pkt., 10c.; oz., 75c.

Bermuda Varieties—They are of a mild and delicate flavor, and keep longer than any foreign variety. They will produce full-grown onions from seed the same season. In the South seed sown in the Fall will produce fine large onions for market in early Spring.

Red Bermuda—Pkt., 10c.; oz., 25c.; $\frac{1}{4}$ lb., 75c.; lb., \$2.50.

White Bermuda—Pkt., 10c.; oz., 25c.; $\frac{1}{4}$ lb., 75c.; lb., \$2.50.

ONION SETS

One quart will plant a row about 50 feet



Used for an early crop of onions, and should be planted just as soon as the ground can be worked. Press the bulb in the ground lightly and do not cover; in rows 12 inches apart, 2 inches apart in the row; so that all the development goes in the onion; on signs of their going to seed, bend the top over, but do not break it off. They can be harvested in this locality for Winter storage as early as July 10th. The advantage in planting set lies in the fact that the young onion is ready in five weeks from time of planting, while those grown from seed cannot be used until well in the Autumn. Shipped on local orders about March 1st, unless otherwise requested.

If ordered to be sent by Parcel Post, include postage, according to zone; a quart of Onion Sets weighing about $1\frac{1}{2}$ lbs.

Yellow Danvers—Pt., 15c.; qt., 25c.; pk., \$1.50; bu. of 32 lbs., \$5.00.

Large Red Wethersfield—Pt., 15c.; qt., 25c.; pk., \$1.50; bu. of 32 lbs., \$5.00.

White Silver Skin—Pt., 15c.; qt., 25c.; pk., \$1.50; bu. of 32 lbs., \$5.00.

Multiplier Onion Sets, yellow and white, are furnished in September and October. Market price.

Price on Onion Sets subject to change.

LEEK (Ger. Lauch)

One ounce to 150 feet of row.

Culture—Sow the seed and care for the young plants same as for Onions, but they need a little more room to develop fully. When the young plants are about the size of a goose quill, transplant into a prepared bed in rows one foot apart and four to five inches in the rows. Set the roots deep and draw the earth to them when cultivating, so that they may be well blanched by the time they are fit for use.

Giant Carentan—Produces a large, thick stem, and of mild flavor. Pkt., 5c. and 10c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.25.

American, or Flag—One of the hardest and best for Winter use. Pkt., 5c. and 10c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.25.



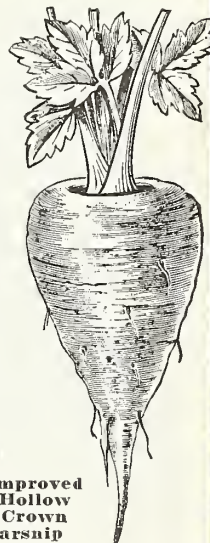
PARSNIP (Ger. Pastinake)

One ounce for 200 feet of drill; five to six pounds for an acre.

Culture—Sow as early in the Spring as the weather will admit, in drills 15 inches apart and one-half inch deep, in a rich, deep soil; thin out to six inches apart in the rows. The quality of the roots is improved by leaving them in the ground over Winter for Spring use.

Improved Hollow Crown—The best variety. A great cropper, roots long, very smooth, white, tender, sugary, and of excellent flavor. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

M. & S. New Intermediate Parsnip—Much earlier than Hollow Crown, will mature in 90 days. Grows 8 to 9 inches long, with heavy shoulders. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; 1 lb., 75c.



Improved Hollow Crown Parsnip

PEPPER (Ger. Pfeffer)

One ounce will produce 1000 plants.

Culture—Sow in hot-beds in March or April, or on a warm, sheltered border in May, and when the season is favorable transplant in rows two feet apart and 18 inches in row, in good, rich ground.

Mammoth Ruby King—Good for Mangoes or pickling, very sweet. Large, quite productive. Pkt., 5c. and 10c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; lb., \$2.00.

Large Bell, or Bull Nose—Large, early variety; hot flavor, thick and fleshy. Pkt., 5c. and 10c.; oz., 25c.; $\frac{1}{4}$ lb., 75c.; lb., \$2.50.

Chinese Giant—This is a real monster pepper, perfectly sweet, the fruit is green turning to bright scarlet, matures very late, a very



Mammoth Ruby King Pepper

shy seeder. Fine for stuffed mangoes. Pkt., 10c.; $\frac{1}{2}$ oz., 25c.; oz., 50c.; $\frac{1}{4}$ lb., \$1.50.

Large Sweet Spanish—A variety rivaling with Chinese Giant is, however, not as large. Color and shape very similar, also late in maturing; for mangoes or pepper hash this is an ideal sort. Pkt., 5c. and 10c.; oz., 20c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.75.

PEPPER—Continued on next page

PEPPER—Continued

Neapolitan—This variety is an excellent one, grows a long shape and somewhat narrow; it stands upright on the bushes. The fruit is sweet and bright red; a very early sort. Pkt., 10c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

Long Red Cayenne—Long, slim, and very pungent. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.75.

Small Chili—Small, red, conical pods. Very hot and prolific. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.

Pepper Plants—Ready in May and June. Doz., 15c.; 100, 60c.

PARSLEY (Ger. Petersilie)

One ounce to 150 feet of drill.

Culture—Parsley requires rich, mellow soil. The seed is even slower than Parsnip in germinating, and should be sown as early as possible in the Spring, in drills one foot apart, and when the plants are well up thin to one foot in the row. When the plants are about three inches high cut off the leaves, the plant will start a new growth.



Champion Moss Curled—A distinct variety of unequalled merit, beautifully crimped and curled. It can be cut the year round, as it rarely runs to seed. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 75c.

Green Mountain Parsley—Beautifully crimped and curled; perfectly hairy and vigorous grower. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 75c.

Plain, or Single—Very strong in flavor, but not curled. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.

Hamburg, or Rooted—Edible roots. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.

GARDEN PEAS (Ger. Erbsen)

Sow one quart of seed to 100 feet of row; one and one-half to two bushels to the acre in drills.

Culture—Peas succeed best in light, dry, loamy soil. Early and dwarf sorts require richer soil than the late varieties. If manure is used, let it be old and well rotted, or there will be a rank growth of vines with few pods. Sow the early, smooth, round sorts as early in the Spring as the ground can be worked. Seeds of wrinkled varieties are more liable to rot if the ground is cold, and must be planted later. Sow in single rows, dwarf sorts three feet apart and tall sorts four feet apart, or in double drills, six to eight inches apart, one inch apart in the drill, and not less than four inches deep, for late sorts five to six inches deep. Deep planting prevents mildew.

Packets of all varieties of Peas, 5c. and 10c.

If wanted by Parcel Post, include postage, according to zone. Weight, 1 pt., 1 lb.; 1 qt., 2 lbs.; pk., 15 lbs.

Prices on all Pea Seeds are subject to market changes.

Six first-class Peas which will mature according to rotation:
E. E. Alaska. Prolific Early Market. "M. & S." Little Marvel.
Gradus, or Prosperity. Daisy, or Dwarf Telephone.

EXTRA EARLY VARIETIES

Pedigree First and Best—An excellent strain of first early peas; very popular and largely planted throughout the trucking sections. Height two to two and one-half feet. Pt., 20c.; qt., 35c.; pk., \$2.50.

Prolific Early Market—This is one of the largest podded and most productive of all smooth-seeded extra early peas. Vines grow about 30 inches in height, and can all be gathered in two pickings. The pods are remarkably well filled, and the peas sweet and fine flavored. A most satisfactory prolific early sort, both for the market gardener and the home gardener. Pt., 20c.; qt., 35c.; pk., \$2.50.

Extra Early Alaska—Popular among market gardeners for an early crop. The pods are medium size, dark green in color and ripen almost at one time. Pt., 20c.; qt., 35c.; pk., \$2.50.

Long Podded Alaska—Vines of Extra Early Alaska Peas this variety grow about three feet high and are heavy bearers. The pods, three inches long, mature shortly after Alaska and are well filled with sweet, tender peas. Pt., 20c.; qt., 35c.; pk., 2.50.

M. & S. Bountiful—Resembling Long Pod Alaska in general habit of growth. Vines light green in color. Pods 3 inches long, slightly curved. Seed bluish green, medium size and pitted. Height of straw 30 inches. Pt., 20c.; qt., 35c.; pk., \$2.50. Bushel prices on application.



EARLY WRINKLED VARIETIES

M. & S. World's Record—The earliest wrinkled peas ever introduced. Similar to Gradus, but a week to ten days earlier and more uniform in its ripening period. Pt., 25c.; qt., 40c.; pk., \$2.50.

Gradus, or Prosperity—One of the most popular wrinkled sorts. Even though it matures a short time later than the extra earlies, the pods, fully as long as those of the well-known Telephone, contain very large peas that are unexcelled for sweetness. Superior variety for market or garden. Pt., 20c.; qt., 25c.; pk., \$2.50.

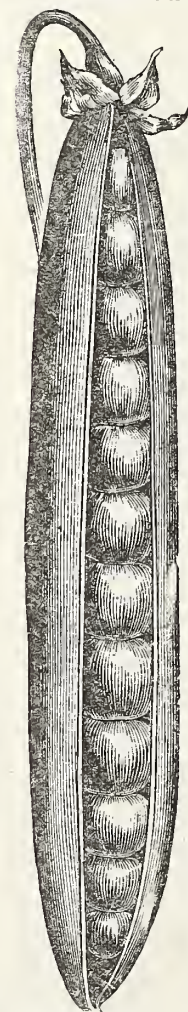
M. & S. Little Marvel Pea—An extremely valuable variety, superior to Nott's Excelsior and American Wonder, especially suited to small home gardens, and also a splendid variety for early market gardening. It matures very early and produces large crops. The vines grow about 15 to 18 inches in height. The pods are dark green, fair sized, produced in pairs, and are closely filled with seven to eight peas of extra fine flavor. Pt., 20c.; qt., 35c.; pk., \$2.50.

Thomas Laxton—An exceptionally fine variety, growing three feet in height and yielding large podded peas, four to five inches in length, of the finest flavor. Pt., 20c.; qt., 35c.; pk., \$2.50.

Nott's Excelsior—One of the best dwarf early wrinkled peas. It grows about 14 inches high, very productive, and the pods three inches long, generally contain six or seven large, sweet peas of the finest quality. Well recommended for home use. Pt., 20c.; qt., 35c.; pk., \$2.50.

American Wonder—Dwarfer and a trifle earlier than the preceding, but not quite so productive. The peas are sweet, tender and of delicious flavor. Pt., 20c.; qt., 25c.; pk., \$2.50.

Daisy, or Dwarf Telephone—The striking features of the Daisy Pea are its large pods and the way in which they are heaped up in ridges on the short, strong vines. The pods are nearly double the size of American Wonder, or Premium Gem, and are always well filled with large peas of most excellent quality. The vines are 16 to 18 inches high, and, being strong and thrifty, require no support, making it an ideal variety for use where brush or stakes are not available. This pea is desirable on account of the fine appearance of the pods, and always finds a ready sale. Pt., 20c.; qt., 35c.; pk., \$2.50.



Thomas Laxton
Pea

Bliss' Everlasting, or Abundance—Vine stout about two and one-half feet high, bearing at the top six

to ten broad pods. If these are picked as they mature and the season and soil are favorable, the plant will throw out branches bearing pods which will mature in succession, thus prolonging the season. The peas are large and wrinkled, cook very quickly, are tender, of superior flavor and preferred by many to any other sort. Pt., 20c; qt., 35c; pk., \$2.50.

MEDIUM AND LATE VARIETIES

Telephone—For general planting this tall-growing variety is undoubtedly the most popular among market gardeners. The pods, four to four and one-half inches long, are light green in color and filled with large, sweet, tender peas. Pt., 20c; qt., 35c; pk., \$2.50.

M. & S. Yorkshire Hero—An old and well-known variety and justly prized for its genuine worth. It is hardy and productive, upright in growth, stout and branching. It bears near the top of the vine broad pods well filled with large peas. Pt., 20c; qt., 35c; pk., \$2.50.

Champion of England—A standard pea; vines grow four and one half feet high and bear medium-sized pods of peas of good quality. Pt., 20c; qt., 35c; pk., \$2.50.

Improved Sugar Marrow Peas—We have the genuine stock of this variety. This pea is the kind planted principally by the larger growers around Baltimore for late crop. It is a strong grower and produces an abundance of large, well-filled pods. Pt., 20c; qt., 35c; pk., \$2.50.

French Canner—Largely grown for canning. It is very productive, the pods are long, slightly curved and well filled; quality is good; late. Pt., 20c; qt., 35c; pk., \$2.50.

Tall Melting Sugar—The pods as well as the peas of this variety are edible and both very sweet. Pt., 25c; qt., 40c.

Use FARMOGERM on Garden Peas and watch results. Price, 25c; 50c. per bottle. Acre size, \$2.00.

PUMPKIN (Ger. Kurbiss)

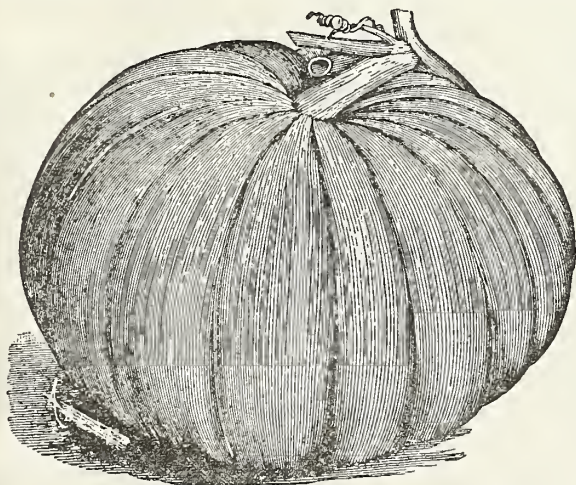
One ounce of seed will plant fifteen hills; three to four pounds plants an acre.

Culture—Pumpkins are not so particular in regard to soil as melons or cucumbers, but in other respects are cultivated in a similar manner. Sow in the month of May. Make hills the same as you do for squashes, but do not make the hills too close. You will find that eight to ten feet apart each way is much better than closer planting. It is preferable to grow large quantities of Pumpkins as a special field crop, and not in the kitchen garden, as they always mix so badly with squashes and other vines. The few you do need to grow in the home garden you should put in your most remote corner. You will, of course, sow some amongst your corn, putting in a few seeds, say every third or fourth hill, after the last working; this will give you plenty for the table and your stock the coming winter.

Cushaw, or Winter Crookneck—An old standard variety, which is very popular. It is also used for feeding stock. Long yellow crook-neck, fine grained yellow flesh, very solid. Pkt., 5c; oz., 10c. ¼ lb., 20c; lb., 60c.

White Cushaw—Same as above, only has white skin. Price same as above.

Japanese Pie—Flesh very thick, rich salmon color, fine grain, dry and sweet. Pkt., 5c; oz., 10c; ¼ lb., 25c.



King of Mammoths, or Pot Iron

Tennessee Sweet Potato—Excellent for pies; pear-shaped, medium size, flesh and skin creamy white, fine grained, sweet, a first-rate keeper. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

Cheese—Shape flat like a cheese box; good keeper, popular. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 40c.

King of the Mammoths, or Pot Iron—An immense variety, which always wins prize offered for the largest and best pumpkins grown to weigh over 200 pounds. Flesh of a rich, golden yellow; a splendid keeper. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c.

Common Yellow, or Connecticut Field—Very productive; for feeding stock. Pkt., 5c; ¼ lb., 10c; lb., 30c.

POTATOES (Ger. Kartoffeln)

Ten bushels cut tubers will plant one acre.

Potato prices subject to market fluctuation.

Culture—Planting may commence as early in the Spring as the ground can be worked. Place one piece every twelve inches in rows two and one-half feet apart, covering about four inches. When cutting the seed care should be taken that at least one good eye, or two small ones, is allowed to each piece. Sandy loam produces the best potatoes.

Time of shipment—Potato shipping with us commences about March 15th (weather permitting), unless otherwise requested. We can ship them at customer's risk any time during cold weather.

Our potatoes are put up in barrel sacks of 165 lbs. each.

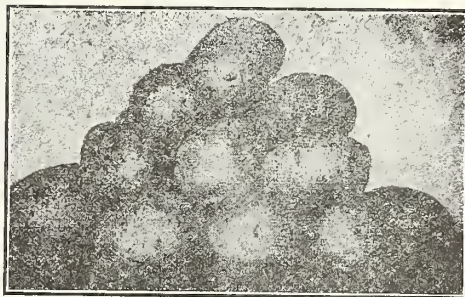
Prices on quantity of Potatoes furnished on application.

Red Bliss—Very early, thin, red skin, round, white flesh. Pkt., 75c; bu., \$2.50.

White Bliss, or Pride of the South—Productive and extra early. White skin and flesh. Round. Pk., 75c; bu., \$2.50.

Irish Cobbler

—This is an early potato of exceptional merit, which has given our trade entire satisfaction. The shape is round. Flesh is white and the eyes strong and deeply set. Considering its earliness, productiveness and excellent quality we do not hesitate to recommend this as one of the best early varieties. Pk., 75c; bu., \$2.50.



Irish Cobbler Potato

M. & S. Fill Basket—On account of the large yields that have been reported of this potato, our sales on it have increased wonderfully. It is of handsome shape and most desirable for the best trade. It is a vigorous grower, ripens uniformly, is a good keeper and is fast becoming one of the most popular medium late varieties. The vines are always very heavy, the seed being especially vigorous, and tubers always good size where soil is well tilled. Our customers will find the M. & S. Fill Basket a very reliable potato. Very smooth and a good cooker. We can furnish nice stock while the supply lasts. Pk., 90c; bu., \$2.75.

Houlton Early Rose—The Houlton strain of the old favorite Early Rose has been the most popular on our market in recent years. It is preferred because it is a little earlier than the old Early Rose. A description of this variety is needless, as almost everyone knows of its excellence in quality and as a cropper. Pk., 75c; bu., \$2.50.

Bovee—This variety is of recent introduction, and its general good qualities have attracted much attention. More productive and earlier than the Early Rose. Pink, or flesh-color, smooth, uniform marketable size; dwarf stock, vine permits close planting. Pk., 75c; bu., \$2.50.

Crown Jewel—A well-known and deservedly popular early variety. Very productive and an excellent cooker. Skin white and smooth, eyes shallow, but strong. Pk., 75c; bu., \$2.50.

Beauty of Hebron—It is a very rapid and vigorous grower, ripening fully as early as the Early Rose, which it resembles, but frequently exceeds in productiveness and excellence for table use. A very good keeper. Pk., 75c; bu., \$2.75.

Early Ohio—This is a very profitable variety. It is fit for use before fully ripe. It is shorter and rounder than the Early Rose, of good quality and very early. Pk., 75c; bu., \$2.50.

POTATOES—Continued on next page

Capt. J. M. Moore, Revenue Cutter Service, Arundel Cove, Md., tells us that he was highly pleased with results he obtained from flower and vegetable seeds purchased from us.

POTATOES—Continued

Burbank—We have very fine stock of this old reliable late potato. The Burbank is of excellent quality, yields well and is a splendid keeper. **Pk., 75c.; bu., \$2.50.**

Improved Green Mountain—For a main crop later potato we consider this variety one of the best. It is very white, has an excellent flavor, and is very productive. Popular with those who have tried it. **Pk., 75c.; bu., \$2.50.**

Early Norther, New Queen, Carmen No. 3, Prosperity—All choice northern stocks. Prices furnished on application.

Choice Seed Sweet Potatoes, Leading Varieties—Prices on application.

Sweet Potato Plants—Ready in May and June. 40c. 100, parcel post, 50c.; 1,000 prices furnished on application.

PEANUTS (Ger. Erdnusse)

For medium light, loamy or sandy land. Peanuts are one of the most profitable crops that can be grown. They yield very largely—yields of 50 bushels per acre being reported on land too poor to plant in corn. In addition to the yield of nuts, they yield quite largely of nutritious forage, and will yield ordinarily about a ton of excellent dry forage per acre, in addition to the crop of nuts.

Culture—Peanuts should be shelled before planting. They should be planted in May or early June, in rows about two and one-half to three feet apart, dropping the nuts eight to ten inches apart, one in a hill. Cover one or two inches deep. Cultivate three or four times with a cultivator, so as to loosen the earth and keep down weeds, and at the last working, with a small turn-plow throw the dirt to the nuts. Do not cultivate too late in the season, as late cultivation is likely to injure the formation of the nuts. It is also advisable to make an application of lime, scattering it on top of the row just after planting, and to use a top-dressing of land plaster just after the last working. Peanuts require plenty of lime to make first-class nuts, and the use of lime and plaster as above mentioned is recommended by the most successful growers.

In harvesting, plow the Peanuts and then stack against stakes stuck into the ground, the roots with the Peanuts on them to the centre, and the leaves outside.

The Peanuts we offer are selected from the best and most productive crops grown in Virginia. Peanuts are one of the most profitable and satisfactory crops that are grown in the South, and we recommend to all our customers, even if they do not plant for market, to plant at least a small patch of Peanuts for home use.

M. & S. Improved Jumbo Peanuts (Shelled)— $\frac{1}{4}$ lb., 15c.; $\frac{1}{2}$ lb., 20c.; lb., 30c. Special price on large quantity.

RADISH (Ger. Radies)

One ounce for seventy-five feet of drill; nine to ten pounds in drills to one acre.

Culture—To be tender and crisp, Radishes must be grown quickly, and this requires rich soil and plenty of moisture. Commencing with the first mild spell in the Spring, sow at intervals of ten days, in a light, rich, deeply-worked soil. May also be sown as a catch crop between rows of beets, lettuce, onions, etc. Radishes can be forced in hotbeds, but must have plenty of ventilation and moisture.

EXTRA EARLY VARIETIES

White Tipped Scarlet Globe—A good forcing variety. Small size and very attractive, being a handsome, bright scarlet, with white tip. Very early and good quality. **Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.**

Ruby King, Extra Early—Of brilliant red color, fine for forcing or open ground; roots are tender, juicy and mild. The best round red Radish that grows. **Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; $\frac{1}{2}$ lb., 30c.; lb., 50c.**

Scarlet Globe Early—This variety can be used for forcing and is recommended for early outdoor planting. It is a small, round, red radish, of excellent flavor. Its rich, crisp, tender flesh makes it very popular. **Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 15c.; lb., 45c.**

Gentlemen:

The Ruby King Radish Seed I bought from you grew the best radish I ever raised.

CHARLES LEISTNER,
Halethorpe, Md.



White Tipped Scarlet Globe Radish

White Turnip (Short Top)—Of quick growth; roots round, pure white, tails very thin; leaves short, flavor excellent. Fine for forcing and open ground. **Pkt. 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.**



White Strasburg—Handsome, oblong, tapering shape, both skin and flesh pure white; flesh firm, brittle, tender and possessing the most desirable character of retaining its crispness, even when the roots are old and large. Excellent for Summer use, as it withstands severe heat and grows very quickly. **Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.**

Crimson Giant—An extra early radish, good for forcing or outdoor growth. It is nearly round in shape, remarkably solid, crisp and juicy. It will grow double the size of ordinary red forcing radishes, and still remain hard and solid. **Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.**

French Breakfast, Early—Oblong shape, rapid grower, very mild and tender; of a beautiful scarlet color, topped with white. **Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.**

Early Long Scarlet Short Top—The principal outdoors quick-growing variety, also very good for forcing. Grown in light, rich soil, its average length is about eight inches; grows half out of the ground, straight, uniform in color, brittle, crisp, small tops, bright scarlet. **Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 15c.; lb., 35c.**

Icele—A beautiful long, slender radish, of recent introduction. Beautiful pearl-white color, firm and solid, slow to get woody. A good seller. **Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.**

Icele Radish

SUMMER VARIETIES

Golden Globe—A favorite Summer radish. Golden-brown skin, perfect globe shape, mild and brittle, slow to seed. **Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.**

Large White Stuttgart—Very large, top-shaped.

Gentlemen: It affords me great pleasure to inform you that from the Collier's Success Seed Corn you shipped me I raised 11 barrels of corn to the acre on land which had no fertilizer or manure for two years. Yours truly,

F. SANDERS, Woodwardville, Md.

flesh and skin white, fine quality, firm and brittle, seldom pithy. Can be stored for Winter. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Large White Summer Turnips—Round, smooth and very white; crisp and tender. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

WINTER VARIETIES

White Chinese, or New Celestial—Large stump-rooted, white skin and flesh, mild in flavor, brittle and never woody. For late planting and a splendid keeper. Market gardeners will find this a good variety that sells readily. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Long Black Spanish—Large radish, with black skin and white firm flesh, grows six to eight inches long. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Round Black Spanish—Like the above except that it is round shape. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Long White Spanish—Like the Long Black Spanish, only different in color. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

China Rose, or Scarlet China—Bright rose-colored, stump-rooted, of excellent quality. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Sakurajima (Mammoth Japan)—The largest sort in cultivation. Sow early in rich soil. In Japan it grows as much as twenty-one inches long and forty-three inches in circumference. Thin well to allow of proper development. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

RHUBARB (Ger. Rhabarber)

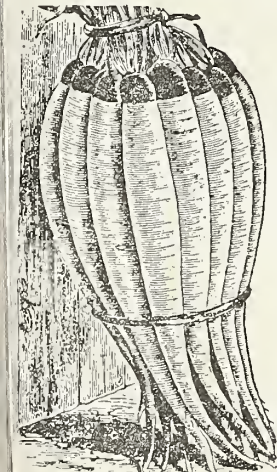
Culture—Sow seed in a cold-frame, in a fine, rich, sandy loam, about the first of March, in drills four inches apart. Keep the frames covered during nights and cold days, so that the soil will not freeze, and in six or eight weeks the plants will be large enough to set in the open ground. Transplant to a rich soil, and set in rows twelve inches apart and twelve inches in the row. The following Spring transplant to a permanent location, setting four or five feet apart each way. In good soil Rhubarb is ready to use the second year from seed. When roots are set out plant them four or five feet apart each way, and keep the weeds down. If roots are used, a crop may be had after one season, which is much better than sowing seed where only a few plants for family use are needed. In the Fall the bed should have a thick dressing of coarse manure, to be spaded under in Spring.

Victoria—The leading variety. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 50c.

Roots—Extra large and two-year-old. Each, 15c.; doz., \$1.00; 00, \$7.50.



SALSIFY, OR OYSTER PLANT (Ger. Hafer Wurzel)



Mammoth Sandwich Island Salsify

One ounce to seventy feet of drill; about eight pounds to the acre.

Culture—Sow as early as the ground can be worked in the Spring. In drills twelve inches apart, one inch deep, and thin out to six inches in the row. Keep them free from weeds. Cultivate the same as for Carrots and Parsnips. A part of the crop may be left in the ground till Spring, when it will be found fresh and plump. The roots are cut into pieces one-half inch long, boiled until tender, and then served with drawn butter, in which way it is a delicious vegetable. They are also mashed and baked like Parsnips, and have a sweet and agreeable flavor like that of the oyster.

Mammoth Sandwich Island—This is an improved type and the largest and most profitable salsify now in cultivation. It is white in color, and a satisfactory sort in every way; invaluable to market-gardeners and truckers. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.50.

SPINACH (Ger. Spinat)

One ounce will sow fifty feet of drill; fifteen to twenty pounds to an acre.

Culture—Sow in early Spring, in drills a foot apart, every two weeks for a succession, and, as it grows, thin out for use. For Fall use, sow in August, and for Winter crop in September. Cover that which is left out over Winter with straw or leaves after the weather becomes quite cold. Keep clear of weeds. Sow the seeds of New Zealand and in hills two feet apart each way, three or four seeds in a hill.

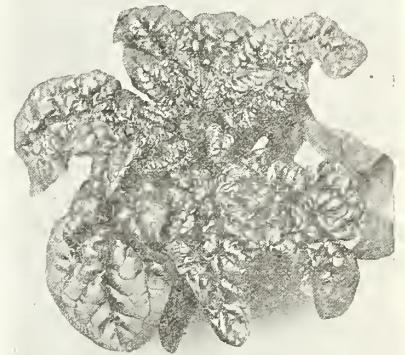
Bloomsdale Savoy Leaved—The popular Fall Spinach so largely grown for market. Grows upright, the leaves being crumpled, dark green and very thick. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Prices on larger quantities furnished on application.

Victoria—A favorite for early Summer. It is one of the darkest in color, and with exception of the heart, the leaves are comparatively smooth. Pkt., 5c.; ¼ lb., 20c.; lb., 60c.

Long Season—Leaves are decidedly dark green in color, very broad, thick and fleshy. It resists the Summer heat remarkably well, in fact better than all others, and remains a long time in condition for use before going to seed. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

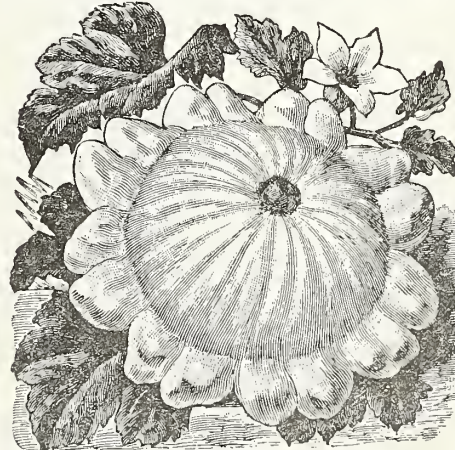
New Zealand—Distinct from the ordinary Spinach in appearance. The plants are more spreading in growth with small, very dark green leaves, which may be had throughout the hot Summer months. Sow seed outdoors during May, dropping about three seeds in hills two feet apart each way. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.



Victoria Spinach

SQUASH (Ger. Gemuese Kurbiss)

Bush sorts, one ounce for fifty hills; five to six pounds to acre; running varieties three to four pounds in hills for an acre.



Early Mammoth White Bush Squash

over, leaving three to four of the strongest plants per hill.

Early Mammoth White Bush Squash—An excellent strain. Early prolific and much larger than the old White Bush. Splendid for market and best for shippers. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Summer Crookneck, Bush Variety—About one foot long, with crooked neck, bright yellow, warty, shell hard when ripe. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 50c.

SQUASH—Continued on next page

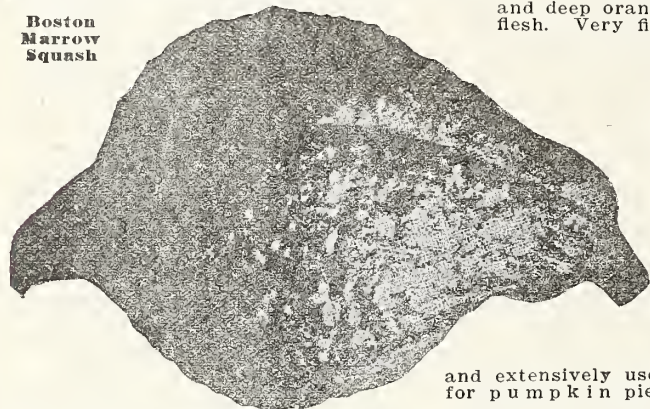
SQUASH—Continued

Hubbard—An excellent keeper and of splendid quality. Vines of strong running growth. Large olive-shaped fruits with dark-green skin and very rich flesh. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Golden Hubbard—Like the above, but of a beautiful orange-red color, except for a bit of olive-green on blossom end. Flesh deep orange, dry, fine grained and richly flavored. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Boston Marrow—This is a large-fruited, hard-shell sort, highly esteemed for Winter use, having bright orange skin and deep orange flesh. Very fine

**Boston
Marrow
Squash**



and extensively used
for pumpkin pies.

Fine strong running growth. Very productive, oval shape. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

VEGETABLE MARROW

English—The true English strain; cream-color, merging into deep yellow; white flesh; about 9 inches long. Pkt., 5 cts.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Italian (Cocozelle di Napoli)—Grows about 20 inches long, with a diameter of 3 or 4 inches. Skin smooth, dark green, marbled yellow or pale green. In Italy it is eaten when quite young. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

**SORREL, OR SOURGRASS
(Ger. Sauerampfer)**

Culture—Sow in Spring in drills 18 inches apart, in a rich soil and keep the flower-stems cut off as they appear. It remains in the ground year after year, and only needs to be taken up and divided once in four or five years. To be cut and cooked precisely like Spinach; or it is excellent cooked with it, one-third Sorrel to two-thirds Spinach. It is also used for soups. Very nice to be eaten after it has become cool. Inasmuch as the hot sun tends to increase its acidity, a northern exposure is preferable.

Large French—Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.00.

TOMATO (Ger. Liebesapfel)

We Pay Postage on All Tomato Seed.

One ounce for 1,500 plants; quarter pound (to transplant) an acre.

Culture—This delicious vegetable is one of the most important of all garden products. The seed should be sown in a hotbed about the first week in March, or latter part of February, in drills five inches apart, and half an inch deep. When the plants are about two inches high they should be set into small pots, allowing a single plant to a pot. About the first of May the plants may be set out in the open ground, in hills three or four feet apart, each way. (Sufficient plants for a small garden may be started by sowing a few seeds in a shallow box or flower pot, and placing it in a sunny window of the room or kitchen.) Cultivate thoroughly as long as the vines will permit, but the last two or three workings of the soil should be very shallow (surface cultivation), or the crop may be badly injured, especially if the cultivator is run too near the young plants.

Extra Early Mascot—We pronounce this new Tomato the best extra early we have seen. Compared with Earliana it is five days earlier, a heavier cropper, fruits fully as large, but thicker through from stem to blossom end, more solid and of a deeper red color. It ripens close up to the stem. It is quite dwarf with little foliage, but very compact. It is the greatest yielder we have ever seen. We have counted fifteen marketable fruits on a single crown setting. We do not mean to say that half the patch will do this, but we can honestly say that we saw a great many plants with seven, eight and nine fruits on a crown setting. Being a small-vined sort, it requires high cultivation to bring out all its good qualities. Pkt., 5c. and 10c.; oz., 35c.; ¼ lb., \$1.00; lb., \$3.50.

Mr. Fred Ravadge, of Fullerton, Md., a prominent truck grower, tells us that he never before raised such perfect Radishes as he did from our White Chinese or New Celestial Radish Seed which he purchased from us last August.

Fiedler's Early Cropper Tomato—Bears handsome red-skinned fruit which seeds very shyly, in clusters, on short, stout vines from June 15th until frost. This valuable variety should be planted by all means, especially by truckers who want large, smooth, round tomatoes on the market as soon as possible. Pkt., 10c.; ½ oz., 25c.; oz., 50c.; ¼ lb., \$1.50, lb., \$5.00.



Extra Early I. X. L.—Combines extreme earliness, immense size and prolificness. Fruit red, ripening mostly all at one time. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Sparks Earliana—Particularly desirable for shipping and for earliest market. The fruits are smooth, round, of red color, making desirable and salable fruits. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

Chalk's Early Jewel—The finest of the very early tomatoes. About a week later than the Earliana, but far superior in quality. Fine red color, fine quality, hardy and productive. Excellent flavor. A most profitable variety for early

Extra Early Mascot Tomato

and main crop. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

Sunny Brook Special—Great favorite among the Anne Arundel County truckers on account of its earliness, productiveness and uniformity of good size, smooth, red-skinned tomatoes. Pkt., 5c. and 10c.; oz., 35c.; ¼ lb., \$1.00; lb., \$3.50.

King of the Earliest—One of the largest Early Red Tomatoes which well deserves its name. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 60c.; lb., \$2.00.

Bonnie Best—A tomato of fine quality. Early, round smooth, red fruit of excellent flavor. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

John Baer—This tomato compares with Bonnie Best, but grows much heavier foliage and larger fruit; is also more productive. While not as early as the Earliest, it will pick some fruit quite early; the bulk of the crop coming five to seven days later. It is a good, all around tomato, the fruit being smooth ripening clear to the stem and of a good rich red color. Pkt., 10c.; oz., 40c.; ¼ lb., \$1.25; lb., \$4.00.

Fiedler's Early Cropper Tomato

June Pink—For gardeners who have a market for an early, purplish pink fruit (which is produced in clusters). This is the variety to plant. True strain seed. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Beauty—Splendid for early market and shipping. Purplish tinge, excellent quality. A fine variety for home gardens. A good yielder. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

Livingstone's Globe—Glossy rose-color, tinged with purple very early, smooth and of large size; very productive and a good keeper. A standard variety which retains its popularity very popular with Southern Growers. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 80c.; lb., \$3.00.

New Queen—Large, solid, smooth, handsome, deep red color a heavy cropper and popular with canners. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

Maryland Pride—A fine tomato for main crop. Producing enormous quantities of fine, large, red tomatoes, which carry well, making it a good shipper. Pkt., 5c. and 10c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

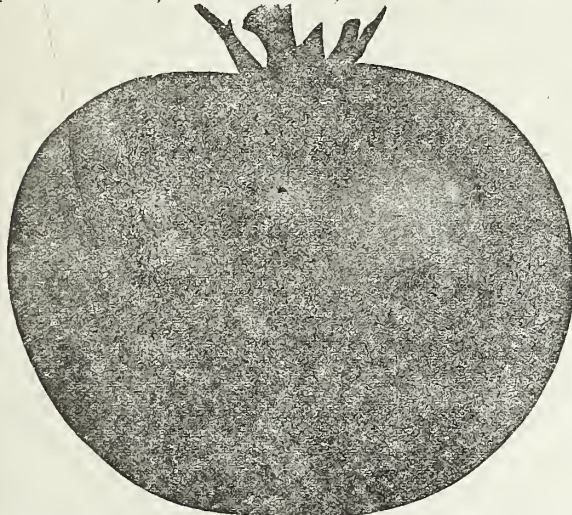
New Stone—This variety is one of the very best tomatoes grown. For productiveness, shipping and canning qualities 1

Jos. Chaney, South Baltimore, Anne Arundel County, claims that our Extra Early Mascot Tomato is two weeks earlier than the John Baer Tomato.

Your Extra Early Mascot is the finest early tomato I ever had
EMMIT WESLEY, Hanover, Md.

Mr. H. L. Whitman, of Magothy River, Anne Arundel County Md., tells us that our New Stone and Kelly's Red Tomato Seed produced the finest crop he ever had.

is excelled by none. Bright scarlet, fine flavor, very smooth and round. We recommend it as a thoroughly reliable main crop tomato. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.



Kelly's Red

Kelly's Red—This variety has obtained immense popularity in the last few years. It was originated in Anne Arundel County. Its solidity and carrying qualities are remarkable. Its color is a desirable red. Its shape perfectly smooth and thicker from stem to blossom than most varieties, making it very handsome and salable. Nobody finds any fault with this variety, but all speak in the highest terms of its beautiful color, its wonderful yielding qualities, its unequalled firmness, or some other of its good points. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Greater Baltimore—General crop tomato of sterling merits; large, smooth, beautiful red skin fruits, which are produced in great abundance until frost kills the vine. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.00.

B. B. (Brinton's Best)—A very fine late crop tomato, which is similar to the New Stone. Keeps well after being picked. A vigorous grower and quite popular. Pkt., 5c. and 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

Ponderosa—Remarkably large and of fine quality. Very solid. Pkt., 10c.; oz., 35c.; ¼ lb., \$1.25.

Dwarf Champion—Stems short, thick, stiff, almost self-supporting. Fruit large, round, red-tinged purple, borne in showy clusters. A good variety. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.

Dwarf Aristocrat—Like Dwarf Champion, but red-fruited. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.

Golden Queen—Bright yellow, large and solid. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.

Yellow Pear and Yellow Plum—Two small-fruited kinds for preserves. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.

Red Pear—Pear-shaped red. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.

Peach—Very small, pink fruit, with slight peach bloom on skin. Pkt., 5c. and 10c.; oz., 25c.; ¼ lb., 75c.

Tomato Plants (of all leading, popular varieties)—Ready in April. Dozen, 15c.; 100, 50c.

Special prices on Tomato Seed to Cannery and Grangers who buy in large quantities.

TURNIP (Ger. Ruebe)

One ounce for 100 feet; two pounds to the acre.

Culture—For early use sow as soon as the ground opens in Spring, drills from 12 to 15 inches apart; thin out to six or nine inches in the rows. For a succession, continue to sow every two weeks until June; for Fall and Winter crop, sow in July and August. The Ruta Bagas are grown for feeding stock, and are also excellent for the table. Take up the roots in November or before severe frosts; cut off the tops within an inch of the crown, store in a cool cellar or pit, or pile up in a conical form, out of doors, in dry ground; cover carefully with long straw and finish by earthing up, covering them with about 12 or 15 inches of earth, leaving a trench around the heap to carry off the water. Put away in this manner they will be found in good condition in the Spring.

Purple Top Yellow Aberdeen—Medium size, round, pale-yellow, tender and sugary. Is hardy and productive and keeps well. Closely approaches Ruta Baga in hardness and firmness of texture. This is an old esteemed variety for stock. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

Improved Purple Top Ruta Baga, or Swede—The leading variety of Ruta Baga and is grown principally for stock, although it is very often used for table. Hardy, productive, flesh yellow, solid, sweet, fine grained and of good flavor. Ruta Bagas should be sown about one month earlier than other turnips. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

Your Extra Early Mascot Tomato is all and more than you claim. It is the best early Tomato that I ever planted, reserve me at least a pound or two.



Red, or Purple Top White Globe Turnip

Red, or Purple Top White Globe Turnip—Excellent for table use or stock. Fine quality, keeps well. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

Pomeranian White Globe—Free growing and rough-leaved. Pure white. Useful for table and stock. Large and productive. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 45c.

Cow Horn—A long, white, carrot-shaped turnip, which grows half out of the ground. Mostly used for feeding stock, but makes a fine table sort. Has lately been brought to prominence for green manuring, in connection with rape. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

Seven Top—Grown exclusively for its tops, and when properly prepared and cooked make a fine dish. Withstands our Winter without any protection. Pkt., 5c. and 10c.; ¼ lb., 15c.; lb., 40c.

Tennoji Turnip—A Japanese variety of exceptional merit. Flat, snow white and of immense size, but very fine flavor. Seed very scarce. Pkt., 10c.; oz., 25c.

FIELD CORN (Ger. Maiz)

Eight quarts to the acre.

Collier's Success—The ears are of immense size, 12 to 14 inches long, 8 to 10 inches in circumference, carrying 20 to 24 uniform rows of large yellow kernels, well developed over tip and butt. It is a luxuriant grower, about 12 to 15 feet high. Matures in 100 days. Makes a splendid ensilage corn, making two ears on many stalks. ¼ pk., 25c.; pk., 75c.; bu., \$2.50.

Yellow Leaning—We have a very choice strain of this early, drought-resisting variety. It makes a fair-size ear, with deep, well-shaped grains, and will mature in 90 days. ¼ pk., 25c.; pk., 75c.; bu., \$2.00.

Golden Beauty—Large, broad-grained, yellow corn. Ears are well filled out. A heavy yielder. ¼ pk., 25c.; pk., 75c.; bu., \$2.25.

Maryland Yellow Dent—Large ear; moderate size stalk; withstands drought well. ¼ pk., 25c.; pk., 75c.; bu., \$2.25.

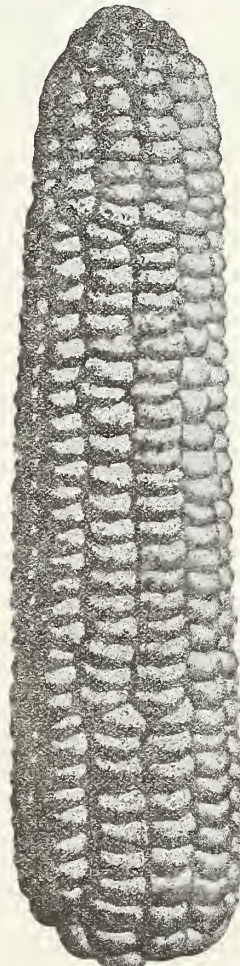
Hickory King—A very broad-grained white corn that does well on light ground. A good corn for the South. Very small cob. Generally bears two ears to the stalk and occasionally three. ¼ pk., 25c.; pk., 75c.; bu., \$2.50.

Boone County White—Recommended by the Agricultural Experimental Stations. A fine, large, deep-grained variety, originated by one of the best corn breeders. ¼ pk., 25c.; pk., 75c.; bu., \$2.50.

Collier's Excelsior—White corn, especially adapted for hominy corn on account of its flintiness. Great producer on poor soil. ¼ pk., 20c.; pk., 75c.; bu., \$2.50.

Red Cob Ensilage Corn—Pk., 75c.; bu., \$2.50.

Virginia Horse-Tooth Ensilage Corn—Pk., 75c.; bu., \$2.50.



Boone Co. White Corn

Yours for success, J. E. PHELPS, Hanover, Md.

M. & S. ROLAND PARK LAWN GRASS

One of the most essential parts of the country place and suburban home is a carefully made and well-kept lawn. No trouble should be spared in its making, as much of the future results depends upon the start or foundation of the lawn, which, if correctly made, can easily be kept years, and give pleasure in perfect condition for not only to the owner, but to others who see it. In seeding for lawn-making, care should be taken that a well-balanced mixture of grasses is used, one composed of such varieties as will blend together well and also ripen successively, thus securing a healthy and beautiful color throughout the Summer. This special mixture produces beautiful and permanent lawns. It is made from our own formula, and composed of grasses which are adapted for the purpose of producing turf which retains its rich green color and velvety appearance throughout the entire Summer and Fall. In making up this brand we are careful to use seed that has been thoroughly re-cleaned, the light seed and chaff having been blown out.

¼ lb., 10c.; ½ lb., 15c.; 1 lb., 25c.; 5 lbs., \$1.10; bu., of 20 lbs., \$4.00.

M. & S. Shady Nook Grass—It is quite difficult to obtain a satisfactory growth of grass under trees and in shady places; for sowing in such places we recommend the use of this special mixture. It will quickly produce an abundant and even growth of beautiful green grass. The grasses used in making this special mixture are only those that are well adapted for growing in shade. It has been successfully used on some large operations where a green sward was desired on land partly shaded by old trees. ¼ lb., 20c.; 1 lb., 30c.; 5 lbs., \$1.35; bu. of 20 lbs., \$4.75.

M. & S. Pleasure Grounds Mixture—For fair greens, golf links, athletic grounds, etc. The turf required for pleasure grounds must be of a character to withstand rough usage. This special mixture is made from our own formula, and will produce a permanent turf that will stand the hardest wear. For tennis courts, cricket tables, golf links, polo grounds, or wherever a good sward is wanted, this seed will give perfect satisfaction. We believe that the golf links should be as fine as a velvety lawn, hence the need of a fine mixture. 1 lb., 25c.; 5 lbs., \$1.00; bu. of 20 lbs., \$3.75.

M. & S. Terrace Mixture—For embankments and terraces. 1 lb., 25c.; 5 lbs., \$1.00; bu. of 20 lbs., \$3.75.

M. & S. Special Grass Mixture for Hay and Pasture—M. & S. Pasture Mixture is prepared to meet the average need. It is made up of the grasses best calculated to afford an abundant and nutritious food supply for stocks. Its formula is based upon successful experience. For all ordinary permanent pasturage it will be found entirely satisfactory. Bushel of 14 lbs., \$2.75.

LANDSCAPE GARDENING

—A New Innovation

We are constantly in touch with leading Landscape Gardeners and are best prepared to lay off your gardens to be a show place in your community.

Mr. A. T. Chalk, Superintendent of "Homewood," the Athletic Field of the Johns Hopkins University, states that the grass seed purchased of us gave quicker and better results than any other he has ever sown.

TOBACCO SEED

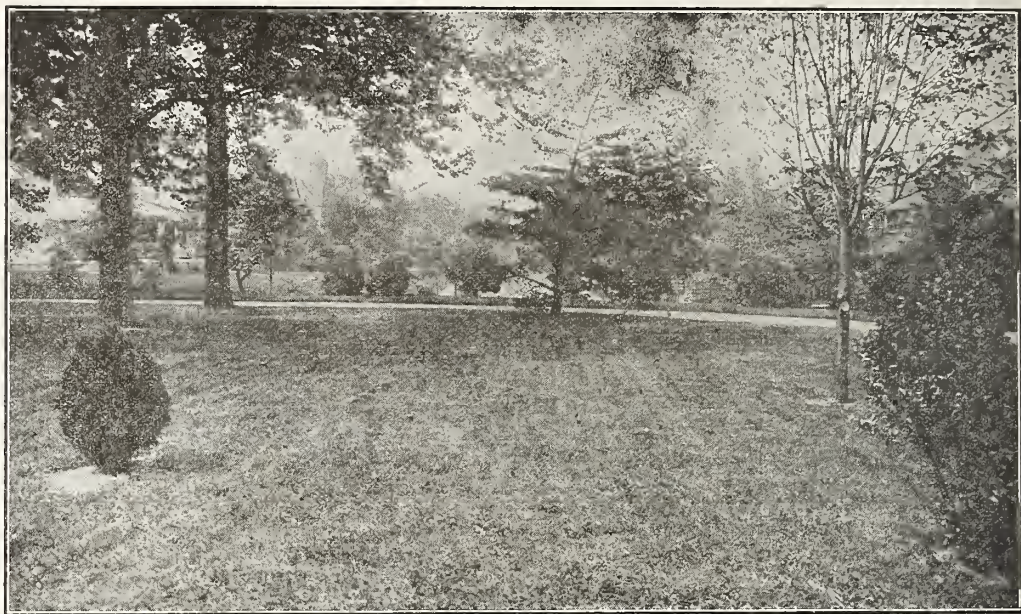
Connecticut and Pennsylvania Seed Leaf—Pkt., 5c. and 10c. oz., 25c.

Havana Seed Leaf—Pkt., 5c. and 10c.; oz., 35c.

I raised the largest yellow corn ever grown around the Rappahannock River from Collier's Success Corn, for which I paid you \$2.50 per bushel. Some ears measured 15½ inches after husking and a great many stalks had two ears on more than one half of them.

Yours truly,

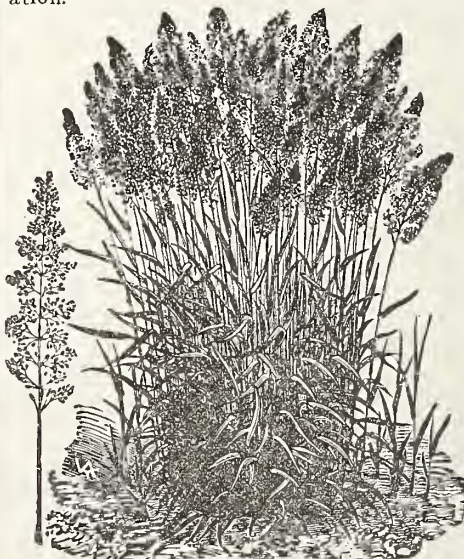
J. C. KREETE, Dumsville, Va.



GRASS SEEDS

Prices and samples on application. Prices subject to market fluctuation.

We desire to call special attention to the following list of Agricultural Grasses, which will, we think, be found very comprehensive, both as to varieties and descriptions. We are devoting a great deal of time to this most important subject and this department has already become an extensive one with us. Having learned by experience that the so-called imported grasses which are offered by those making a specialty of them in this country are very far from reliable, both as regards purity and quality, we have found it necessary to import all our seeds of this character direct. We have accordingly made arrangements for our stocks with one of the most prominent growers of Agricultural Grasses on the Continent, who, by virtue of many years' experience in growing seeds of this peculiar character, has become the recognized headquarters for same. This will enable us to furnish our customers with the very best, and that which we know to be free from all adulteration.



Kentucky Blue Grass

Kentucky Blue Grass—(Poa Pratensis.) One of the most widely distributed and valuable native grasses, combining more points of excellence than any other. It is a true perennial, lasting indefinitely and improving every year. Densely creeping root-stalks, spreading habit, smooth, even growth, fine texture and rich-green color render it one of the very best grasses for lawns. It forms a close turf, starts very early in the Spring, and lasts till frost. It succeeds with almost any soil, dry, rocky, sandy or gravelly, and stands the long continued dry weather and hot suns. It takes, however, two or three years to become well established, and should, therefore, be sown

only in connection with other grasses. If the soil is especially suitable it will eventually crowd these out, and make the finest possible sward. It is one of our most valuable pasture grasses, very productive and nutritious. **Lb., 25c.; bu., of 4 lb., \$250.**

Rhode Island Bent—The distinctive feature of this species is its compact, creeping, rooting stems. It is of rapid growth and spreading habit, and the stoloniferous roots form a strong, enduring turf that is positively improved by constant trampling. Being of fine texture, it is most valuable for lawns and putting greens. **Lb., 45c.**

Crested Dog's Tail (*Cynosurus cristatus*)—A stoloniferous perennial, forming a smooth, compact and lasting turf. It thrives best on rich, moist land, but it can accommodate itself to almost any soil. Its roots penetrate deeply into the ground, which enables it to stand severe droughts. It makes a good bottom grass and is therefore valuable in mixtures for lawns and putting greens. It thrives well in the shade. The color is the same as that of the Kentucky Blue Grass, and it is, therefore, excellent in mixture with that sort. **Lb., 35c.**

Fancy Red Top; Herd's Grass (*Agrostis vulgaris*)—A very hardy, native perennial grass, succeeding best on moist land. It accommodates itself to a variety of soils, however, even to quite dry situations, and stands our hot climate admirably. It is, perhaps, the most permanent grass we have, and it enters largely into the composition of our best natural pastures. It remains green for the greater part of the year, and its long, trailing stems form a very close, matting turf that is not affected by trampling. **Lb., 20c.**

Meadow Fescue (*Festuca pratensis*)—This makes a most excellent hay and pasture grass, and is practically valuable for fall and winter pasture, as it remains green throughout the winter. It is also splendid spring and summer grass, and usually makes more and thicker leafage than any other grass we have ever grown. It is very popular in Southwest Virginia, East Tennessee and the mountainous districts of North Carolina, where it is very highly appreciated as a large-yielding, nutritious pasture and hay grass. **Lb., 25c.**

Orchard Grass; Cocksfoot (*Dactylis glomerata*)—One of the grasses most employed in permanent meadows, either for pasture or for mowing. It is very hardy and succeeds well anywhere in the United States. It is very productive and makes excellent hay. If cut before it flowers it is less hard and the tip of the stem is soft and sweet. It blossoms about the same time as Red Clover, and is therefore desirable in mixture with that plant. Stock of all kinds are very fond of it, either dry or green, and it endures constant cropping better than any other grass. After being mown, it grows up quickly and yields heavier aftermath than any other variety. It can stand considerable shade, and is recommended as a pasture grass for woodlands. Its tendency to grow in tussocks is diminished if it is sown with other grasses, and is also by heavy rolling in the spring. But it is quite unsuitable for lawns. **Lb., 25c.; bu. of 14 lbs., \$27.75.**

Pacey's Perennial Rye Grass (*Lolium perenne*)—Although called a perennial, it seldom lasts more than three or four years. It is the most valuable grass of Great Britain, both for pasture and for meadows, occupying there the same relative position of importance that Timothy holds here. The cool, moist climate of England seems to suit it best, yet it succeeds very well in our middle and eastern states, and adapts itself to a great diversity of soils. The seed is large and heavy, and produces a strong, verdant growth in four or five weeks after sowing. It cures into hay, having a sweet flavor, and much relished by cattle and horses. Its nutritive value, especially in mixture with Red Clover, is very great. It is excellent in mixtures for quick effects in lawns or golf-links. **Lb., 15c.**

Timothy (*Phleum pratense*)—A native of Europe, but long ago naturalized in America, where it ranks as by far the most important of hay grasses. On moist, loamy or clayey soil it produces a larger hay crop than any other grass. It is not so well suited for light sandy soils. Though preferring a moist, temperate climate, it withstands drought and extreme heat and cold. Its hay is very nourishing and can be preserved for a long time. It should be cut when flowering, if left later the hay becomes hard and coarse. It is often sown along with Red Clover, and the nutritive value of the hay is greatly increased by this mixture. Height, two to three feet. If sown alone, at least one-half bushel to the acre should be used. The seed weighs 45 pounds to the bushel. Several grades are always on the market, differing in purity and vitality. It is always most economical to buy the highest grade known as "Fancy." **10c. per lb.**

Wood Meadow Grass (*Poa nemoralis*)—The chief characteristic of this grass is its special fitness for shaded positions in lawns and woodland parks, where other grasses will not grow. It is very permanent and hardy, resisting extremes of heat and cold, and is one of the first grasses to show a rich green growth in the spring. The creeping roots are formed under ground, and make a good turf and should be included in all putting-green mixtures. It is excellent for pasture. **Lb., \$1.00.**



Timothy

CLOVER SEEDS

Write for samples and prices in larger quantities.

White Clover (*Trifolium repens*)—Some White Clover is usually included in lawn-grass mixtures. It makes an excellent turf that stands constant trampling. It is of dwarf habit, spreads rapidly and is very hardy. It is valuable in permanent pastures, being sweet and nutritious. Sow in Spring. In mixtures, one or two pounds; if alone eight or ten pounds to the acre. **¼ lb., 15c.; ½ lb., 30c.; lb., 60c.**

Alfalfa, or Lucerne (*Medicago sativa*)—Requires deep, rich, well-drained soil. Roots very deeply, the tap-root descending often to a depth of 10 or 15 feet in loose soil. It is, consequently, capable of resisting great droughts. It should be sown alone (about the same time as oats are sown in this section) in thoroughly prepared, deeply plowed soil, at the rate of 20 to 25 pounds to the acre. It is also successfully sown as late as August and up to the middle of September. The crop should be cut when the plant is coming into bloom. In suitable soil it is perennial, and several crops may be cut every year. Height, one to three feet. **Lb., 25c.**

Alsike, or Hybrid Clover (*Trifolium hybridum*)—A perennial, one to three feet high, succeeding best in cold and stiff soils, and in marshy lands which are too wet for other species. It grows well in the far North and in high altitudes, and can withstand severe cold. A good honey plant for bees. Fifteen pounds to the acre. **Lb., 22c.**

Red Clover (*Trifolium pratense*)—One of the most valuable farm crops of the eastern States for pasture, hay, or for turning under for green manure. It requires a deep, rich soil and yields two hay crops in the season. In this section, sow in the Spring at the rate of 15 pounds to the acre. **Lb., 22c.**

Mammoth Red, or Sapling Clover—Grows larger and lasts longer than the common red clover; valuable for plowing under. Ten pounds to the acre. **Lb., 22c.**

Crimson, or German Clover (*Trifolium incarnatum*)—Erect annual, one to two feet high, with bright-scarlet flowers. A native of Southern Europe, it is largely grown in the South for improving the soil by turning under. It will not stand severe frost, and cannot be depended upon to stand the winter north of New Jersey. It is a valuable crop for pasture or green manure. For hay it should be cut when in full bloom. Sow 20 pounds to the acre. **Lb., 18c.**



Red Clover

Prices subject to market fluctuation.

SUDAN GRASS

A NEW FORAGE CROP OF IMMENSE VALUE TO THE FARMERS OF THE UNITED STATES

SUDAN GRASS AND ITS VALUE

Hoard's Dairyman says that possibly no other crop ever introduced into the United States became so generally popular in so short a time as Sudan Grass. It has been in this country only a little more than 5 years, and if it has ever made an enemy he is keeping his feelings to himself. Its friends are many, not only in Texas, where the great bulk of the crop is to be found, but in practically every other State in the Union, and when fed to various kinds of live stock it is relished by all. The enthusiasm of those who have seen it spreads like wildfire, and if there be a farmer who is not a booster for Sudan Grass it is simply because he has not seen the crop grown or has not been able to secure the seed.

It gives a highly profitable yield of palatable, nutritious hay. It is adapted to practically every soil type and climate condition to be found in the United States south of the northern tier of States. It is especially appreciated in the Middle and Southern States because it is an annual grass crop which may be rotated with corn, cotton or other crops in a manner such as clover.

It is appreciated because of its wonderful drought resistance and consequently heavy yielding qualities under semi-arid conditions. It is appreciated in many parts where types of soil and other conditions are not suitable for timothy and clover crops. It is also destined to be grown in timothy growing sections, for the reason that it is a more prolific yielder and furnishes more hay at a different season. In the Western States under irrigation it is outyielding alfalfa.

The yield of seed varies from 200 to 1,250 pounds to the acre. It is regarded as the most valuable hay grass ever grown in this country; it is extremely bushy and attains a height of from 5 to 8 feet and furnishes an endless amount of magnificent and highly nutritious hay, and a yield of from 5 to 9 tons per acre is not unusual. We recommend it for trial and give it our unqualified endorsement.

SUDAN GRASS—Continued

Mrs. C. Sloan, Merryfield, says: "I received a few seeds of your house this Spring. They proved excellent; the best seeds I ever had. Inclosed find order for more."

SUDAN GRASS—Continued on next page

Another point which speaks well for Sudan Grass, is that the hay is relished by live stock even when grown for seed and the seed threshed off. Work horses, mules, milk cows and dry cattle eat it readily. Sudan grass is very tender and palatable, and has a sweetish taste and pleasant odor which cause it to be relished by all kinds of farm stock, and very especially dairy cows.

Dairymen are proud of Sudan Grass because they feel that it means more for the dairy business in the United States than has been done in behalf of the industry for many years, and we certainly commend this crop to every milk producer in the United States, south of the Northern tier of States.

Seeding—Sudan Grass should not be planted until the soil has become warm in the Spring. It can be sown any time during the Summer as a catch crop as long as 40 to 80 days intervene before frost. It can be sown in rows 18 or 42 inches apart and cultivated like corn, or it can be drilled with a grain drill or sown broadcast by hand. If sown broadcast use from 10 to 15 pounds of seed per acre; this gives an excellent stand because of its wonderful stooling habit, one seed producing from 20 to 200 culms of stems and it has a record of 500 culms from a single seed. It is a crop therefore that adjusts itself to the land automatically. Northern grown seed is best.

Harvesting—It can be cut by a mower and cures readily the same as millet or any other hay crop. Cut just after full bloom. After cutting it renews itself promptly. In about 40 days another cutting is ready. In 1912 four cuttings were secured in Texas. Ordinarily two or three cuttings may be had in the central United States.

Price—25c. lb.; 10 lb., \$2.00; 100 lbs., \$15.00.

FORAGE AND MISCELLANEOUS SEEDS

Write for samples and prices in larger quantities. Market price fluctuate.



German, or Golden Millet

German, or Golden Millet (*Panicum Millaceum* var)—An improved variety, medium early, growing three to five feet high. Heads are closely condensed, though the spikes are very numerous. During the past few years the fact has been established beyond doubt that seed of the German, or Golden Millet, grown in Southern latitudes, will produce a much larger yield of hay than from seed grown in Northern or Western sections of the country, and for that reason is far better for farmers to sow. **Lb., 5c.**

Hungarian Grass, or Millet (*Panicum Germanicum*)—A species of millet growing less rank with smaller stalks, and often yielding two or three tons of hay per acre. It is very popular and valuable. Like the common millet, it is an annual, and requires to be sown every season, but will produce a larger return than almost any other crop. **Lb., 5c.**

Barley, Oats, Rye, Wheat—Market prices.

Broom Corn (*Sorghum vulgare*)—Succeeds in a good, deep soil, fresh but not damp; very sensitive to cold. Long-brush Evergreen. **Lb., 10c.**

Soja Bean (*Glycine hispida*)—Thrives well in hot and dry weather. Valuable for the South. Does not make good hay, but is good for ensilage or green fodder. **Market prices.**

Cotton (*Gossypium*)—Upland Big Boll—Very prolific. **Lb., 20c.**

Cow Peas (*Vigna Catjang*)—Specially adapted to warm countries; extensively grown in our Southern States; also valuable in this latitude as a fodder plant; their chief value, however, is as a green crop to plow under. The seed should not be sown till the ground has become warm.

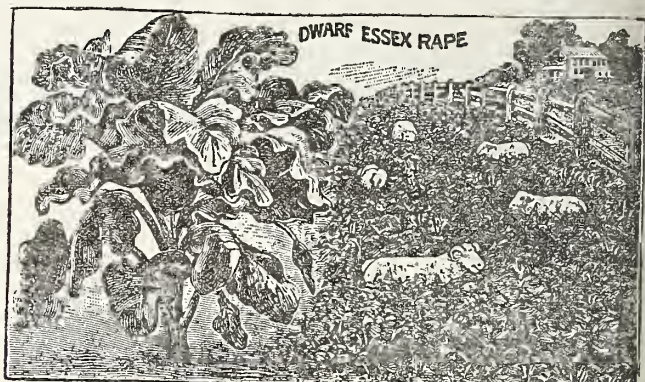
Black, Black-Eyed, Clay, New Era, Whip-poor-will—Market prices.

Peas—Canadian Field—Valuable for Northern climates, for cattle-feeding, especially for milch cows. It also makes fine ensilage. It is sown broadcast in the Spring and harrowed in. If sown with oats, about 1½ bushels to the acre; in drills, two to three bushels to the acre. **Market price.**

Japanese Buckwheat—In the locality of Baltimore this is sown anywhere from June 1st to July 15th; one bushel of 48 lbs. broadcast to the acre. If one has the ground prepared and the opportunity, it can be sown as early as May 1st. This variety produces brown seed, is very prolific, maturing fully a week earlier than "Silver Hull" variety. It makes a very fine quality of flour, but is chiefly used for poultry food. For planting adjacent to game preserves it provides excellent food for the birds. The flour makes ideal bee food; while the straw is very abundant. Our seed is grown by a specialist in New York State, who procures his seed stock every few years from Japan. Any of the clover crops can be sown with buckwheat; these to mature the following season. Buckwheat frequently yields as much as 80 bushels to the acre. **15c. per qt.; pk., 50c.**



A Head of Japanese Buckwheat



DWARF ESSEX RAPE

Rape—Dwarf Essex English (*Brassica napus*)—Largely grown in the Northern United States and in Canada. It is excellent for sheep and hog pasture, and chicken yards, also for soiling. It may be sown in May, and will be ready for pasturing in July and August. Or it may be sown in June or July, and yet furnish a large amount of pasture or fodder. In drills, sow five pounds to the acre; sown broadcast, ten pounds to the acre. **Lb., 15c.; per 100, \$10.00.**

Kafir Corn—Non-saccharine. The plant is low, stalky, perfectly erect. The whole stalk, as well as the blades, cure into excellent fodder, and in all stages it is available for green feed. The seed making excellent chicken and pigeon food. **Lb. 10c.**

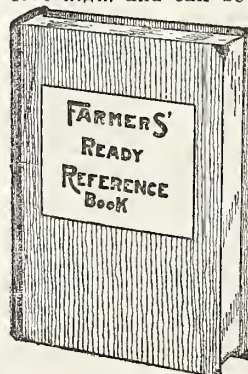
SORGHUM, OR SUGAR CANE

Early Amber—Ripens wherever Yellow Corn matures. Grows 10 to 13 feet high. Fine for cows, either green or cured. **Lb. 10c.**

Early Orange—Ripens about 10 days after Early Amber and is said to produce a larger crop. **Lb., 10c.**

Sunflower—Large Russian—**Lb., 10c.**

Sand, Winter, or Halcy Vetch (*Vicia villosa*)—Thrives on poor, arid, sandy soils. It may be sown either in Fall or in Spring, mixed with rye, for a support. Grows three to four feet high, and can be cut as soon as the bloom appears, and again for the seed. Perfectly hardy. Sow 50 pounds to the acre. Price variable. **Lb., 25c.**



FREE! NOTICE! FREE!

Free! Notice! Free!

With every Garden or Flower Seed order amounting to \$5.00 or over we will send one copy of the 186-page Farmers Ready Reference Book. The most complete Farm Book on the market. Every department of Farm Life covered in detail by Experts. Classified and indexed for convenient use.

Alphabetically Arranged

St. Michaels, Md., April 21, 1914. Perhaps you will be glad to know that the Yellow Danver Onion Sets received from you, are coming up finely. I have a notion our onion fields are going to attract a good deal of attention in this vicinity.

Very truly yours,

GUION P. WILSON.

Flower Seed Department

ANNUALS, AND HOW TO GROW THEM

Annual plants are those that you must sow each year. The hardy perennials I want for the main and permanent effects in my garden, but I could not more do without annuals than I could do without the spices and the condiments at the table.

Of the kinds of annuals there is almost no end. This does not mean that all are equally good. For myself I like to make the bold effects with a few of the old profuse and reliable kinds, like whole masses and clouds of them. Then the other kinds like to grow in smaller areas at one side, in a half experimental way. There is no need of trying to grow equal quantities of all.

For the main and bold effects I want something that I can depend on. There I do not want to experiment. Never till a conspicuous place with a kind of plant you have never grown.

The kinds I like best are the ones easiest to grow. Zinnia, Petunia, Marigold, Four O'clock, Sunflower, Phlox, Scabiosa, Sweet Sultan, Bachelor's Button, Verbena, Calendula, Calliopis, Morning-glory, Nasturtium, Sweet Peas—these are some of the kinds that are surest. I do not know where the investment of five cents will bring as great reward as in a packet of seeds of any of these plants.

Make the soil rich and fine and soft and deep, just as you would for radishes or onions. There are some plants for which the soil can be made too rich, of course, but most persons do not err in this direction. The finer and more broken down the manure the better. Spade it in. Mix it thoroughly with the soil. If the soil is clay-like, see that fine manure is thoroughly mixed with the surface layer to prevent "baking."

First and last, I have grown practically every annual offered in the American trade. It is surprising how few of the uncommon or little-known sorts really have great merit for general purposes. There is nothing yet to take the place of the old-time groups, such as Amaranths, Zinnias, Calendulas, Daisies, Balsams, Annual Pinks, Candytufts, Bachelor's Buttons, Wall-flowers, Larkspurs, Petunias, Gaillardias, Snapdragon, Stocks-combs, Lobelias, Coreopsis or Calliopis, California Poppies, Four O'clocks, Sweet Sultans, Phloxes, Mignonettes, Scabiosa, Nasturtiums, Marigolds, China Asters, Salpiglossis, Nicotianas, Pansies, Portulacas, Castor Beans, Poppies, Sunflowers, Verbenas, Stocks, Alyssums, and such good old running plants as Scarlet Runners, Sweet Peas, Convolvulus, Ipomeas, Nasturtiums, Balloon Vines, Cabaas, etc.

For bold mass-displays of color in the rear parts of the grounds or along the borders, some of the coarser species are desirable. My own favorites for such use are: Sunflower and astor Bean for the back rows; Zinnias for bright effects in the scarlets and lilacs; African Marigolds for brilliant yellows; Nicotianas for whites; Larkspurs for blues.

For lower-growing and less gross mass-displays, the following are good: California Poppies for oranges and yellows; Sweet Sultans for purples, whites and pale yellows; Petunias for purples, violets and whites; Bachelor's Buttons (or Cornflowers) for blues; Calliopis and Coreopsis and Calendulas for yellows; Gaillardias for red-yellows; China Asters for many colors.

For still less robustness good mass-displays can be made with the following: Alyssums and Candytufts for whites; Phloxes for whites and various pinks and reds; Lobelias and rowellias for blues; Pinks for whites and various shades of pink; Stocks for whites and reds; Wall-flowers for brown-yellows; Verbenas for many colors.

If flowers of any annual are wanted extra early, the seeds should be started indoors.

A number of the very late-flowering annuals should also be started indoors for best success in the northern States, as, for example, the Moonflowers and the tall-growing kinds of Cosmos.

Of late years there has been a strong movement to introduce the hardy perennials into general cultivation. This is certainly to be encouraged everywhere, since it adds a feeling of permanency and purposefulness that is needed in American gardens. Yet I should be sorry if this movement were to obscure the importance of the annuals.—By Prof. L. H. Bailey.

RAISING HARDY PERENNIALS FROM SEED

Hardy perennials are easily grown from seed. In many cases they are a little slower than annuals, but with intelligent care they are successfully raised, and from seed is an excellent way to get up a big stock of perennials in a short time. Many perennials, if sown in spring, bloom the first year from seed as freely as annuals. Others wait a year; that is, if sown this year they don't bloom until the next year.

The seeds may be sown in Spring or in Summer. In Spring the sowings may be made in the window, the hot bed, the cold frame, the greenhouse or in the open ground out of doors. In the window prepare pots or flower-pans or small, shallow, wooden boxes or flats; fill to one-third their depth with fine broken cinders or broken pots, and over this place a thin layer of moss, chopped straw or rough siftings from the soil. Keep the dirt from clogging the drainage; then fill up to within one-half or three-quarter inches of the brim with fine peat, mellow soil, with thin layer of very fine soil over it. Tamp the pot on table to firm the soil a little. Now sow the seed evenly, and shake a very little fine soil over it; press it all over with the back of the hand or a board, then water gently through a fine spray or rose; this done strew a little fine earth over all. In the case of very fine seeds covering only enough

to hide the seed is plenty, but Pinks, Gaillardias and other rougher seeded sorts one-eighth inch deep of covering may be given. Keep the seed pots in a warm, sunny window, but shaded with a thin curtain from drying sunshine. A sheet of paper laid over the pot at this time prevents over-drying, but when the sunshine passes, take off the paper, else damp or mold will set in. A pane of glass laid over the pots or flats until germination appears is an excellent preservative of the moisture in the soil, but always tilt it up at one side one-eighth of an inch or more. When the seedlings come up, give them more light by keeping them close to the glass and before they overcrowd one another or become spindly, transplant them into other pots or flats, three-quarters or one inch apart from one another, according to their size and strength. As the weather gets mild, by placing the seedlings in a cool and airier place, as on the porch or a sheltered place out of doors, they become fairly inured to the open weather, and when they are large enough for final transplanting set them out in the garden.

The amateur may have more success and less bother growing hardy perennials from seeds sown in the open ground than in any other way. Prepare a bed in a nice, warm, sheltered spot in the garden, preferably not very sunny; let the surface of the bed be raised four or five inches above the general level, and the soil be a mellow, free, fine earth on the surface. Draw shallow rows across the surface of the bed, three to four inches apart, and here sow the seed, keeping the varieties of one kind or nature as much together as practicable; cover the seeds thinly, press the whole surface gently, water moderately, then dust a little fine loose soil over all. If the weather is sunny or windy, shade with papers or a few branches, but remove these in the evening. When the seedlings come up thin them out to stiffen those that are left, and when they are two or three inches high, they are fit for transplanting into permanent quarters. All this should be done in early Spring, say March, April or May, or in warmer localities a month earlier.

Again in July or August perennials are very easily raised out of doors, and much in the same way as above. Transplant these seedlings in late August or early September to get well-rooted stocky plants before winter sets in.

Mrs. R. A. McCormick, Timonium, Md., states that the Gladiolus she bought from us produced the finest flowers she ever saw. Also the Flower Seeds were very fine.

BEST BOOKS FOR GARDENER AND PROFESSIONAL

Those marked * have been written for us by specialists and are highly recommended.

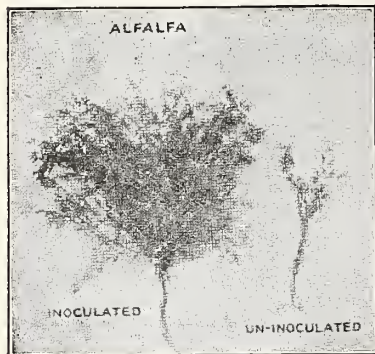
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We can supply any book desired on request.

Mr. H. W. Mohr, Rossville, Md., says: "I bought several varieties of Tomato seeds from you last season and in my long experience at trucking, covering a period of thirty-five years, I can truthfully say that I never harvested finer Tomatoes than the ones I had this year from your seed."

FARMOGERM NITROGEN GATHERING BACTERIA



"Alfalfa"—The greatest forage crop known is now grown with great success in all sections. This wonderful crop can be grown wherever the soil has good drainage—seed bed well prepared and seed inoculated. The Agricultural Experiment Stations have demonstrated that the reason for failure to grow Alfalfa is because of the absence of the proper bacteria in the soil and by the use of Farmogerm inoculation upon the seeds this condition has been overcome, and Alfalfa is a decided success. Farmogerm will provide all inoculations for Alfalfa or any other legumes. It comes in bottles ready for use. You can inoculate the seed for ten acres in ten minutes.

Clovers, Soy Beans, Cow Peas, Beans are legumes, and are greatly benefited by the proper inoculation. This inoculation not only increases the crop in weight, but also in richness, and deposits in the ground upon the legume roots great quantities of nitrates.

Garden Peas, Beans, Sweet Peas yield earlier and longer when inoculated. Order Farmogerm for all these seeds. Price: Five-acre size bottle, \$6.00; one-acre size bottle, \$2.00; garden size bottle, 25c. and 50c.

Alphano Inoculant—This is the only culture of all the bacteria in the one can. \$1.00; enough for 1 acre; weight 2 lbs.

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Quarter acre, 50c. One acre, \$1.50. Five acres, \$5.00



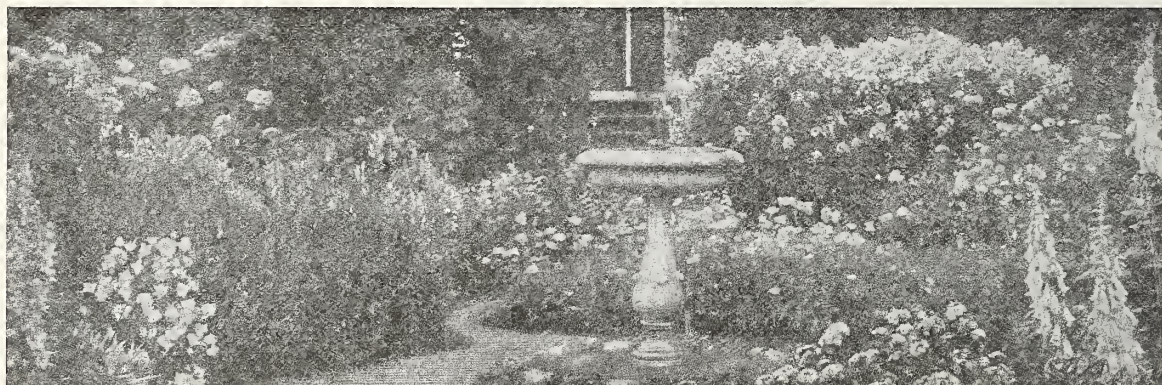
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There is hardly a home in the country during winter where popping corn is not a pastime. Not all Pop Corn is the right kind for popping. What we offer can be relied upon for planting or popping.

White Rice—Lb., 10 3 lb., 25c.; 10 lb., 75c.
Corn Poppers—1 each. Parcel post weight 2 lb.

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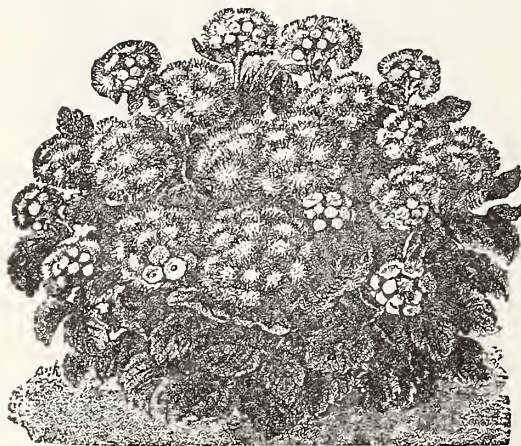


(ORDER BY NUMBER)

All Flower Seeds are 5c. a Package, unless otherwise noted.

All Annuals are marked (a) All Perennials are marked (p)

Hints and information on how and what kind of annuals and perennials to grow will be found on page 21.



2. Ageratum

1. Adonis (a)—Attractive bright flowers—Crimson.
2. Ageratum (a) (Leberbalsam)—For beds or borders. Dwarf, mixed.

3. Alyssum (a) (Steinkraut)—Carpet of Snow. Dwarf, pure white.

4. Amaranthus (a) Caudatus (Fuchschwanz)—Love L. Bleeding.

5. Amaranthus (a) Tri-color Splenders. Joseph's Coat.

6. Antirrhinum. Snapdragon (p) (Lowenmaul)—A splendid plant for beds or borders and one of our choicest cut flowers extensively forced under glass during the winter. To have flowers early sow indoors from February till May, but even sown outdoors in May it will flower profusely in September.



properly protected during the winter they will revive and throw gigantic spikes of flowers during the summer. The Snapdragon treated as an annual and the sown every year. Height, 1½ ft. White, Scarlet, Pink Striped, Yellow and all colors mixed.



6. Antirrhinum or Snapdragon

Asters (a) (C. tern)—To do well require a well pulverized soil always kept open by continuous cultivation. If soil heavy and moist composed of clay it is well to mix sand with it.

7. Aster (P. onie) Flower, choicest mixture, 10c. pkt.; 3 25c.

8. Aster (O. rich Plume). Very beautiful mixed, 10c. pkt. for 25c.

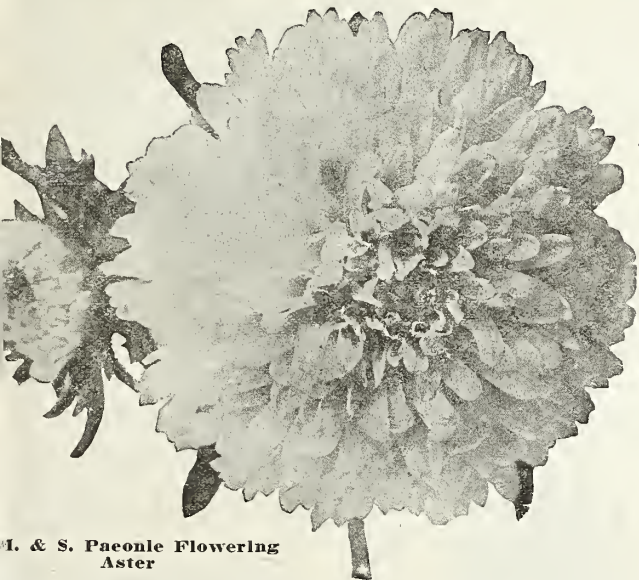
9. Asters, Se

le's Branching—In five distinct colors. White, Pink, Dark Red, Light Blue, Dark Blue and all colors mixed. 10c. pkt.; 3 for 25c.

ALL PACKETS ARE 5C. UNLESS OTHERWISE SPECIFIED

10. Aster. Queen of the Market—Very early; white, pink, lavender, crimson, blue and choice mixed.

11. Asters—German, mixed, double, choice colors.



1. & S. Paeonia Flowering Aster

12. Balsam. (a). (Lady Slipper). (Balsaminen)—Camellia flowered, very fine.

13. Balloon Vine (a). (Love-in-a-Puff)—Annual climber.

14. Balsam Apple. (a)—A climber with very useful fruit.

15. Campanula Media. (p). (Canterbury Bell). (Glocken-ume)—These are strictly biennials and require the following cultural directions. Sow from June 1st till September 1st; when strong enough transplant to a distance of 6 inches apart, after frost has set in protect with leaves and straw. They over the following June, after which they die. Their colors are so pure that gorgeous effects can be achieved with them. Single Blue, Pink, White or Mixed.

16. Calendula. (a). (Pot Marigold). (Ringelblume)—Free-flowering, mixed.

17. Canna. (a)—One of the finest bedding plants.

18. Cannabis Gigantea. (a). (Giant Hemp)—For backgrounds; 4 feet.

19. Calliopsis, or Coreopsis. (a). (Golden Wave). (Schoen-slicht)—Showy, free-flowering, hardy annuals of easy cultivation. Yellow, Brown and choicest mixed.

20. Canary Bird Flower Vine. (a). (Kananische Kresse)—One of the most charming annual climbers, bearing an abundance of bright yellow, fringed flowers.

21. Candytuft. (a). (Schleiferblume)—For beds and massing, mixed.

22. The Cardinal Climber—This glorious and absolutely distinct new Annual Climber we consider the most beautiful and brilliant annual climber ever sent out. It is a strong and rapid grower, attaining a height of 30 feet or more, with beautiful fern-like, lacinated foliage and literally covered with blaze of circular fiery cardinal-red flowers from mid-summer till frost. The flowers are about 1½ inches in diameter, and borne in clusters of 5 to 7 blooms each, and wherever it has been grown during the past two seasons has attracted more attention and favorable comment than any other plant in the garden. Like other Ipomoeas, it delights in a warm, sunny location and good soil. The seed may be started indoors in March or April, but it is best to wait until the weather gets warm and settled, and then sow out of doors. In either case it is well to file or cut through the hard outer shell of the seed or steep in warm water until they begin to swell, which greatly assists in a free and quick germination. If sown in a wet ground the seed is liable to rot. Pkt., 25c.; 5 pkts., 1.00.

Kensington Road, Ten Hills, Md.
Gentlemen: Last Spring I bought a packet of your Triumph and the Giant Pansies, and never in my long experience of growing Pansies have I had such beautiful flowers and a grand variety of colors.
W. R. BOWERS, Arlington, Md.

sterling, Va., July 6, 1914. Dear Sirs: The Nasturtiums I bought from you in April are the finest I have ever grown.
JAS. W. GRUBB.

23. Carnation. (a). (Marguerite Nelken)—Very best variety for amateurs. Popular with all growers, mixed. 10c. pkt.; 3 for 25c.

24. Celosia. (a). (Cockcomb). (Hannenkamm)—Free-blooming. Grand for borders and very good for pots, mixed.

25. Centaurea Cyanus. (a). (Bachelor Button, or Corn Flower). (Kornblumen)—Emperor William, deep blue. White, Pink and all colors mixed.

26. Centaurea. (a). (Dusty Miller)—For borders. Beautiful silver leaves. Grown for their silvery foliage as edging plants.

27. Cerastium Tomentosum. (a). (Hornkraut). (Snow in Summer)—Dwarf, white-leaved edging plant; flowers white;

4 inches high.

28. Chrysanthemum. (a). (Wucherblume)—Choicest mixed.

29. Cineraria. (p). (Wandelblume)—For hothouse and window garden. Price mixture, 35c. and 60c. pkts.

30. Clarkia. (a). (Scharlach Koenigen)—One of the prettiest and showiest hardy annuals. The plants bloom so freely and have flowers of such various bright colors that a bed of them in full bloom is a beautiful sight. They are useful, too, for hanging baskets, for vases and as edging plants. Sow outdoors in early Spring and grow in partial shade. They bloom through mid-summer to late autumn. Average height, 1½ feet.

31. Cleome. (a)—Curious; very ornamental, on Castor Oil Plant style. Sandy soil suits them best. Height two feet.

32. Cobaea Scandens. (a)—Cups and Saucers Vine. Well-known climber of rapid growth, producing large bell-shaped blossoms; in sowing, place the seeds edge-wise, and merely cover with light soil.

33. Columbine, or Aquilegia (p)—A most desirable border plant. It forms large clumps, blooms early, long and abundantly, is useful for cutting and elegant in habit. Sow seed in the open ground in Spring, preferably where the plants are to grow, and thin to about a foot apart. Sow in the Fall for flowering the following season. They thrive well under ordinary garden culture. Few hardy perennials are so easily grown from seed, and will give such unalloyed satisfaction. Single or double mixed.

34. Cosmos. (a). Cosmea—An Autumn-flowering plant. A charming, profuse bloomer. Giant Red, Pink, White, and all colors mixed. Pkt., 5c.; oz., 50c.

35. Early Summer-Flowering Cosmos—Coming into flower in July, continuing until frost. Can be grown in the North where the seasons are too short for other strains. Dwarf, compact growth; 4 feet. Flower beautiful and large; petals broad; all colors mixed; profuse bloomer. Pkt. 5c.; oz., 50c.

GRAND NOVELTY COSMOS

36. Grand Novelty Cosmos. (a). Cosmos Double Crested—We take great pride in offering this novelty to our customers. This is an entirely new class of cosmos, producing double crested flowers of exceptional beauty. The grower does not claim that all plants have double flowers, but the fields show about 50 per cent., but the one that do not show double are dreams of beauty. Pink and White. Seed scarce. Pkt., 25c.; 5 pkts., \$1.00.

37. Coleus. (a). Large Leaved Hybrids—Popular bedding plants with beautifully colored foliage; easily grown from seed if kept in warm temperature. Pkt., 10c.; 3 for 25c.

38. Cypress Vine. (a)—Popular vine, fern-like foliage and masses of beautiful small star-shaped flowers. White, scarlet and mixed.

FLOWER SEEDS—Continued on next page

ALL FLOWER SEEDS 5 CENTS A PACKAGE UNLESS OTHERWISE NOTED

FLOWER SEEDS—Continued

39. *Dahlia*. (a). (Georginen)—Bloom first year from seed if sown early. Double and single, mixed.

40. *Daisy*, *English Double*. (p). (*Bellis Perennis*). (Marienblumen)—Seed should be sown from June 1st till September, transplanted in the Fall, and they will flower the following Spring. If sown in the Spring they will flower in the Autumn; 4 inches. Pkt., 10c.; 3 for 25c.

41. *Shasta Daisy*—Very large; white single flowers on long stems.

42. *Dianthus*. (p). (China Pink). (*Sommerneike*)—One of the most popular flowers in cultivation, blooms profusely. Great variety of colors. Extra choice. Single mixed, crimson, Rose and mixed fringed.

43. *Delphinium*. (p). (Hardy Perennial Larkspur). (Rittersporn)—Highly prepossessing plants of stately appearance; of easiest culture, they are readily the most popular of all hardy plants. Their main season of bloom is in June, but if the flower-spike is cut back promptly it will branch and flower all through Fall. *Fermosa*. Blue, white centre. *Chinese Album*. White. *Chinese Azureum*. Blue. *Kelway's Giant*. Mixed. Pkt., 10c.; 3 for 25c.

44. *Dimerphtoea*. (a). (Golden Orange Daisy). (*Goldgelbe Marquerte*)—One of the showiest garden plants of recent introduction; fairly compact, bushy plants are literally covered with brilliant orange-gold, daisy-like blooms, on fairly long stems during the entire season; excellent for cutting.

45. *Digitalis*. (p). (Foxglove). (*Fingerhut*)—Handsome ornamental hardy plants of stately growth, succeeding almost anywhere. Produces long spikes of beautiful, tubular-shaped flowers; 4 to 5 feet.

46. *Dolichos*. (a). *Hyacinth Bean*, or *Texas Climber*—Showy climber, making rapid growth. White and purple. Pkt., 5c.; oz., 15c.

47. *Eschscholtzia*. (a). (California Poppy). (*Karminkoenig*)—Choice mixture.

48. *Euphorbia*. (a)—White and green; height 2 feet. Known as "Snow on the Mountain."



42. China Pinks

49. *Euphorbia heterophylla*. (*Ferget-me-not*) See No. 78. (a)—Carmine; height 2 feet. Mexican fire plant. Pkt., 10c.

50. *Gourds*. (a). (*Zierknarbis*), or *Dish-cloth*, (*Luffa*)—Nest Egg, Hercules Club, Pear Shape, Mock Orange, Sugar Trough, Calabash, or Pipe Gourd, Dipper, Apple and Chinese Bottle Gourd—the original *Thermos Bottle*—and a



50. Mixed Gourds

general mixture; rapid climbers. Each, 5c. pkt.

51. *Calandria*. (p). (Blanket Flower)—Very fine mixture.

52. *Gypsophila*. (a). (*Baby's Breath*). (*Schleierblume*)—Pretty, free-flowering plants of easy culture; excellent for cutting to mix with Sweet Peas; 2 feet. *Elegan Alba Grandiflora*.

53. *Helianthus*. (a). (Sunflower). (*Sonnenblume*)—Oscar Wilde. Single, yellow.

54. *Helianthus*. (a). (Sunflower). (*Sonnenblume*)—Dwarf, double, 3 feet high.

55. *Heliotrope*. (a). (Giant Hybrids, *Lemoines*)—Produces extra large flower spikes in abundance. Pkt., 10c.

56. *Helichrysum*. (a). (Straw Flower). (*Strohblume*)—Popular, everlasting.

57. *Heliothis*. (p). (*Pitcheriana*). (Orange Sunflower). (*Perenirande Sonnenblume*)—A handsome hardy perennial; producing an abundance of deep orange yellow flowers the entire summer; excellent for cutting; 3 to 4 feet.

58. *Holly hock*. (p). (*Malven*)—One of the most popular and desirable of hardy perennial plants; excellent for planting among shrubbery or forming a background for other flow-

ers; 6 to 7 feet. *Chater's Improved Double Hollyhock* in separate colors, Pink, White, Salmon, Maroon, Yellow and all colors mixed. Single and double.

59. *Humulus*. (a). (Japanese Hop). (*Japanischer Hopfen*)—A rapid growing annual climber with luxuriant foliage.

60. *Hunnemannia*. (a). (Giant Yellow Tulip Poppy). (*Fuariaefolia*)—Sown outdoors in May it produces large quantities of giant yellow tulip-like flowers during end of August, continuing for the balance of the season; the foliage resembles *Eschscholtzia*; height 2 feet.

61. *Ice Plant*. (a). (*Eiskrant*)—Beautiful dwarf edging plants; flower profusely in dry and sunny situations. Fine pots. Covered with watery vesicles resembling pieces of ice.

62. *Kochia*. (a). (Summer Cypress, or Mexican Fire Bush). (*Brennender Busch*)—An easily grown annual, which grows into a cypress-like hedge, with feathery green foliage; at approach of autumn the foliage turns to a deep red color; 2 3 feet.

63. *Kudzu Vine*. (p). (*Puevaria Thunbergiana*)—The Kudzu vine comes from Japan, the land so productive of curious and ornamental flowers. It is a beautiful climber, remarkable for its great vigor of growth and its handsome flowers. The blossoms are large and in panicles somewhat like the *Wistaria*, larger in size and with better clusters. The color is of a pleasing shade of purple. The foliage is luxuriant. The vine extremely rapid and dense in growth, perfectly hardy, increasing in size and beauty year after year; fine for arbors, verandas, etc. Pkt., 10c.

64. *Lantana*. (a). (*Bergsabe*)—Most desirable bedding plant; seeds are best germinated in a greenhouse from January till March; flowers resemble *Verbenas*; plants grow erect and remain in bloom all summer.

65. *Larkspur*. (a). (*Rittersporn*)—Double dwarf Rocket; best mixture. *Larkspur* (Hardy), see No. 43.



70. Mignonette

66. *Lobelia*. (a). (*Spaltgloeckchen*)—Dwarf varieties for bedding. Mixed.

67. *Lupins*. (a). (*Wolfsbohne*)—Very desirable garden plants, showy and excellent for cutting. Grace spikes, 2 feet long, in various shades of white, blue, pink and yellow mixed.

68. *Marigold*. (a). (*Spaltgloeckchen*)—Dwarf, French and tall; fine color mixed, double. 5c. each.

69. *Marvel of Peru*. (a). (*Fo-o'clock*). (*Wunderblume*)—Choice mixed.

70. *Mignonette*. (a). (*Reseda*)—Valuable for cutting on account of fragrance. Sow in succession during the whole summer; may also be forced in greenhouses during winter. *Gold Machett* and *Parson's White*. 5c. pk.

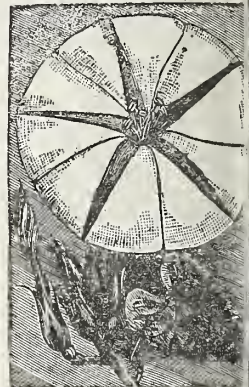
71. *Moon Flower*. (a). (*Ipomoea Noctiflora*). (*Nachtblühende Winde*)—Climber. At night and during dull days the plants are covered with an abundance of large, pure white, fragrant flowers. Pkt., 5c.; oz., 50c.

72. *Mimulus*. (a). (*Tigrinus*). (*Gankterblume*)—Showy, profuse flowering plants; fine for greenhouses or moist, shady situations. 1 ft.

73. *Moschatus*. (Musk Plant). (*Moschuspflanze*)—Fine for hanging baskets; yellow flowers, fragrant foliage; 6 inches.

74. *Morning Glory*. (a). (*Imperial Japanese*). (*Trichterwinde*)—One of the most popular annual climbers, rapid grower. Pkt., 5c.; oz., 10c.; all colors mixed.

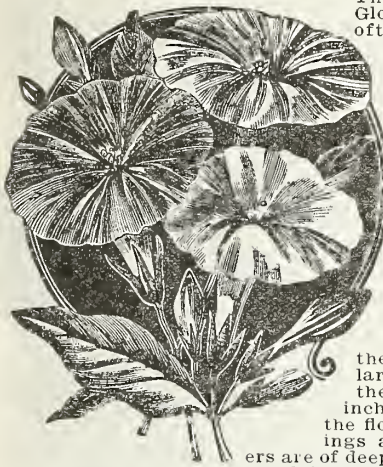
75. *Double-Flowering Morning Glories*—These beautiful climbing annuals are of very rapid and luxuriant growth; the flowers will come double, semi-double and a few, perhaps, single. The colors vary; there are various shades of blue, white spotted with red, white marbled with purple and lavender, pure white, etc. Mixed colors. Pkt., 10c.; oz., 75c.



71. Moonflower

ALL FLOWER SEEDS ARE 5 CENTS A PACKAGE, UNLESS OTHERWISE NOTED. (ORDER BY NUMBER.)

I have bought flower seeds from you, which were planted in the grounds of the Aged Women and Aged Men's Home, and they did so well that I have to tell you about it. Yours truly
MRS. M. C. BAINBRIDGE, 1320 Bolton St., Baltimore, Md



76. Morning Glory

76. Ruffled and Frilled—The perfection of Morning Glories. Immense flowers, often as big as saucers, all wavy, ruffled and fluted from throat to margin, like crumpled velvet. They are simply magnificent. Mixed colors. Pkt., 10c.; oz., 35c.

77. Giant Japanese Morning Glories—The robust vines attain a height of from 30 to 50 feet. The foliage is luxuriant, distinct and varied, green, silvery and yellow leaves; many are mottled light and dark green, white and gray. But the surpassing charm of these "Giant Japanese Morning Glories" lies in the entrancing beauty and large size of the flowers; they measure from 3 to 4 inches across. The colors of the flowers, shadings and markings are limitless. Some flowers are of deep, rich, velvety colors, others daintily tinted and shaded. There are reds from soft rose to crimson and garnet; daintiest blue to purple; snow-white to silver-gray. Some are striped, others have magnificent edges and

blotched and spotted, throats. Mixed colors. Pkt., 10c.; oz., 50c.

78. Myosotis. (p.) (Forget-Me-Not.) (Vergissmeinnicht)—The For-Get-Me-Not is an old favorite; bearing clusters of star-shaped flowers. Succeeds best in a moist, shady situation, and blooms the first year from seed if sown early. Seed sown in Autumn flowers in early Spring.

79. Nicotiana. (a.) (Tabak)—Splendid, pure white, Bouvardia-like flowers on long terminal tubes. It is so fragrant that a small bed will perfume the surrounding atmosphere.

80. Oenothera. (a.) (Evening Primrose) (Nachtkerze)—Beautiful low-growing plant, producing large, silvery white rose and yellow flowers. They thrive best in a sunny position, but succeed in almost any situation or soil. Annual varieties, all colors mixed.

81. Passion Flower. (p.) (Southern Beauty.) (Passionsblume)—Climber mixed. Called "Passion Flower" on account of a resemblance in the flower to the appearance presented at Calvary.

82. Portulaca. (a.) (Mexican Rose.) (Portulakroesen)—Choice, single and double, mixed colors.



81. Passion Flower Vine

PANSIES. (a.) (Stiefmutterchen).

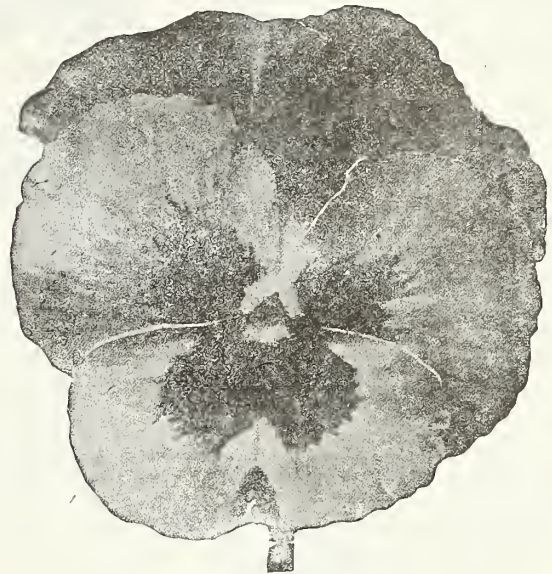
Strictly considered, this is a biennial, but the fact that it flowers the first season from seed recommends it for an annual. There are actually three season in which pansies can be



83. M. & S. Giant Exhibition Pansies

planted. If started in the house from February till April pansies will begin to bloom from July on; sown outdoors in May beautiful flowers are produced in the Fall; sown in frames during July and August and transplanting later gives us the main crop of flowers the following Spring. Pansies thrive best in moist, semi-shady situations.

83. M. & S. Giant Exhibition Pansies—A blending of our own containing only the very choicest the specialists in Europe have to offer; it can be relied upon to produce flowers of immense size, very heavy texture and of the most brilliant colors. Pkt., 10c.; 3 for 25c.; \$2.50 per oz.



84. Triumph of the Giant Pansy

84. Triumph of the Giant Pansy—Immense flowers of great brilliancy and richness of coloring, including many new and rare shades. Pkt., 25c.; 5 pkts., \$1.00.

85. Masterpiece (Frilled Pansy)—Flowers beautifully curled or waved. Exquisite colors. Pkt., 25c.; 5 pkts., \$1.00.

M. & S. Giant Pansies—In separate colors.

86. Lord Beaconsfield—Purple, violet and white.

87. Snow Queen—Pure white.

88. Emperor William—Indigo blue black, blotched.

89. Canary Bird—Pure yellow.

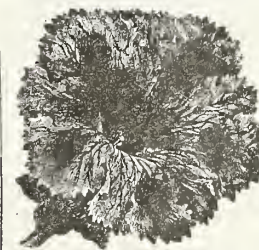
90. King of the Blacks—Lustrous jet black.

91. Lord Baltimore—Yellow maroon blotches.

92. May Queen—White with violet blotches.

All the above 10c. pkt.; 3 pkts., 25c.

93. Very Fine Mixed Pansy—Pkt., 5c.; oz., 75c.



94. Petunia

94. Petunia. (a.) (Petunie)—The Petunia is without a peer among annuals for effective summer bedding or indoor culture. It is of easy culture, early to blossom and continues throughout the summer until the first killing frost. No other flower produces a greater diversity of color, retaining its freshness for so long a period. Pure white, crimson, and all colors mixed.

95. Howard's Star Petunia—A beautiful variety; produces a profusion of crimson-maroon flowers, each having a distinctive five-pointed white star.

96. Phlox Drummond. (a.) (Flammenblume)—One of our finest hardy annuals, on account of its long season in bloom. Easily grown from seed; makes a brilliant display as a summer bedding plant. In all bright colors, or all colors mixed.

97. Hardy Phlox. (p.) (Perennierende Flammenblume)—For a gorgeous show these are the most satisfactory of all perennial plants, 2 feet high, in all bright colors; seeds sown late in Fall will germinate in the Spring; mixed and White, Pink, Lavender and Scarlet. Pkt., 10c.; 3 for 25c.



96. Phlox Drummond

ALL FLOWER SEEDS ARE 5 CENTS A PACKAGE, UNLESS OTHERWISE NOTED. (ORDER BY NUMBER.)

Your M. & S. Giltedge Mixture Sweet Peas produced the finest I ever had. They were the finest in my neighborhood.
Yours truly, J. A. H. ANDES, Ten Hills, Md.

POPPIES (Ger. Gartenhomn)

A great advance has been made in recent years in the development of the Poppy which has brought it into deserved popularity, and it may be safely said that no other flower produces a more brilliant display of color during the blooming period. Annual Poppies should be sown as early in the Spring as possible where they are to remain, as they do not stand transplanting. If constant blossoms is desired, successive sowings should be made every two weeks.

98. Orientale Poppies. (p). Perenirender Gartenmohn—Enormous flowers of deep, flashing scarlet, entirely hardy anywhere; 3 feet.

99. Mixed Hybrids. (a)—Finest shades, mixed.

100. Double Flowered Mixed Poppies—Immense double flowers resembling a Paeony; two feet; finest mixed.

101. M. & S. Shirley Poppies. (a)—A bed of these poppies produces a gorgeous effect in the garden; large flowers with brilliant colors; mixed.

102. Iceland Poppy—These dwarf, bright yellow Poppies form one of the chief attractions of the garden through several months. They are most beautiful when grown in masses from seed sown every year; 1 foot.

103. Rhodanthé. (a)—Very beautiful, delicate looking, everlasting. Much prized for winter bouquets. Red and white and both colors mixed.

California Poppy—See No. 47.

Yellow Tulp Poppy—See No. 20.



98. Orientale Poppies

RINICUS (Castor Oil Bean) (Ger. Wunderbaum)

One of our best ornamental-leaved annual plants, largely used for the centre of beds, being splendidly effective grouped with Cannas, Caladiums and other tall plants.

104. Zanibaricensis—A new and distinct class, surpassing in size and beauty all varieties hitherto known. Plants attain great dimensions—12 to 14 feet. Leaves vary in color from light green to purplish-red. Pkt., 5c.; oz., 10c.

105. Borboniensis—Very large and most showy green foliage; standard variety. 10 to 15 feet. Pkt., 5c.; oz., 10c.

106. Philippinensis—A variety from the Philippines, with beautiful and gigantic purple leaves. 10 feet. Pkt., 5c.; oz., 10c.

107. M. & S. Ricinus Mixture—Appreciating fully the splendid effects that a fine array of these desirable foliage plants will make in your garden, we have composed a mixture that for elegant blending is unsurpassed. Pkt., 5c.; oz., 10c.

SALVIA (a) Scarlet Sage (Ger. Salbei)

108. Splendens—This popular bedding plant is impossible to be replaced. There is nothing more effective in the Fall or mid-Summer than these bright scarlet flowers. Seeds should be started either in the house from February till April or in hotbeds. Best bedder, beautiful scarlet flowers of immense size. Pkt., 5c.; oz., \$1.50.

109. Bonfire—Compact bushy plants; two feet high; producing innumerable erect spikes of the most brilliant scarlet flowers. Height, 2½ to 3 feet. Pkt., 5c.; ¼ oz., 50c.

110. Early Dwarf Zurich Salvia—Grows only 12 to 15 inches high, with many fine, erect, slender spikes to each plant borne well above its handsome foliage. Color brilliant scarlet. Earliest of all. Pkt., 10c.

111. Silverspot Salvia—Rich green leaves elegantly spotted with yellow. The intense, bright scarlet flowers are large and lavishly borne; neat and compact; 2½ feet. Pkt., 10c.

112. Salpiglossis. (a). (Painted Tongue. (Trompeten Zunge)—Very beautiful, hardy annual plants, flowering freely from July to early Autumn. Rich soil should be provided, with plenty of space for plants to develop.

We can furnish all kinds of books on Horticulture and Gardening; if interested, write.

113. Scabiosa. (a). (Scabiose.) (Sweet Scabiosa, Mourning Bride, Pin-Cushion Flower, Egyptian Rose, etc.)—While many plant yearly a bed or border of Scabiosas, there are thousands of gardens where this splendid annual is unknown. It is to bring them forcibly to your attention that we place these beautiful Scabiosas so prominently before you. They are of

the easiest culture. The seed can be sown any time in the Spring after danger from frost is past. The plants grow about 2½ feet high, and come into bloom early in July, continuing without interruption until the hard frosts of Autumn. The exquisite double flowers are borne on very long stems, and when cut keep in perfect condition for the best part of a week. They make most effective borders or beds, and no garden can be considered complete without Scabiosas where many flowers are wanted for cutting.

Strawflower—See Nos. 56 and 103.

114. Sweet William. (p). (Dianthus Barbatius.) (Bartnelke)—This is one of the finest of our hardy garden plants; of easy culture; thriving in any good garden soil and lasting for years. The plants grow about 1½ feet high, and form fine clumps; produces fine effects in beds and shrubbery. Single Crimson, Single Red with white eye, Single Velvety Maroon, Single White and choicest Double Mixed, Single Mixed, all colors. Each, 5c. pkt.

115. Sweet Sultan. (a). (Centaurea Moschatus.) (Wholreichende Kornblume)—Hardy annual; flowers resemble "Bachelor's Buttons," fragrant flower on long stems.

116. Sunflower. (a). (Large Russian.) (Sonnenblume)—Six to eight feet high; immense flowers. Oz., 10c.

117. SUNFLOWER. (a). (The Unique Red Sunflower.) (Rote Sonnenblume)—Of recent introduction. The plants reach a



117. The Unique Red Sunflower

height of from five to eight feet and throw out many branches. The flowers are very numerous, of good form, usually having large long rays and small discs. The heads vary greatly in size—some are only two or three inches across, while others are a foot or more. The color diversifies greatly, some plants produce flowers of a rich chestnut red, others red flowers tipped with yellow, others washed with red. This variety in size and color makes a hedge or border of this annual especially interesting and attractive. Some few seeds will produce plants bearing yellow flowers; for, although the seeds came from carefully selected stock they were grown in a region where sunflowers abound and the wild, doubtless have crossed some with pollen from the wild yellows. The plants likely to produce yellow flowers have no purple in stem or leaf and can be destroyed when seedlings. Pkt., 10c.; oz., 50c.

118. Thunbergia. (a). (Black-Eyed Susan)—Beautiful. Very ornamental climber.

119. Verbena. (a). (Verbena)—An excellent annual for beds and massing, and for a gorgeous display during the summer months cannot be excelled, commencing to flower in July and continuing until frost. Our Mammoth Fancy Strain cannot be surpassed for profusion of bloom and beautiful colors and shades. M. & S. Fancy White, Scarlet, Dark Blue, Striped, Light Blue and all colors mixed.

120. Vinca. (p). (Madagascar Periwinkle.) (Immervin)—Dwarf bedding plants with deep green glossy foliage and bright single blossoms of striking beauty; sow early.

121. Violet. (p). (Veilchen)—Deservedly much in demand because of their profusion of bloom and delicate sweet odor. Pkt., 10c.



119. Verbena

ALL FLOWER SEEDS ARE 5 CENTS A PACKAGE, UNLESS OTHERWISE NOTED. (ORDER BY NUMBER.)

Gentlemen: It affords me great pleasure to inform you that from the Collier's Success Seed Corn you shipped me I raised 11 barrels of corn to the acre on land which had no fertilizer or manure for two years. Yours truly,

F. SANDER, Woodwardville, Md.

WALLFLOWER (p) (Ger. Goldlack)

125. Wallflower

Favorite sweet-scented flowers, of fine colors. Splendid for cutting and useful as Spring bedders.

122. **Cloth of Gold**—Yellow.

123. **Early Feltham**—Fine brown, dwarf.

124. **Velcan**—Dark blood red.

125. All colors mixed.

126. **Wild Flower Garden. (a)**—Fine mixture of old favorites. Pkt., 5c.; oz., 15c.

127. **Wild Cucumber Vine. (a)**—One of the quickest growing annual vines we know of; splendid for covering trellises, old trees; fences, etc. Clean, bright green foliage and sprays of white flowers during July and August, also known as Pants and Petticoat.

ZINNIA. (a). (Youth and Old Age.) (Yung und Alt)—One of the most brilliant and showy of annuals, and has long been a general favorite. They come in flower early in the Summer, and keep on blooming until frost. Require little attention and succeed almost anywhere. For perfection of blossom start the seeds in March, and prick out once or twice before transferring to the open border in May or June. Provide the plants with plenty of room at least 18 inches apart each way, and they soon completely cover the ground.

128. **M. & S. Dwarf**—Double, in six distinct colors, White, Pink, Crimson, Scarlet, Yellow, Purple, and all colors mixed. Each, 5c. pkt.; oz., 50c.

ALL FLOWER SEEDS 5 CENTS A PACKAGE, UNLESS OTHERWISE SPECIFIED.

M. & S. GIANT DWARF NASTURTIUMS (a) (Ger. Kapuzinerkresse)

A great advance has been made of late years in the range of new colors which has been developed in this popular flower, which is one of our most beautiful annuals; easily grown and producing a great profusion of brilliant colored flowers from within a few weeks after they are sown until they are killed by frost; they will flower more profusely in thin soil. Our Nasturtiums are noted for their size, variety and brilliancy of their colors.

129. **M. & S. Fancy Giant Mixed Dwarf**—This is one of the finest mixtures ever offered; composed of the largest and finest varieties. Pkt., 5c.; oz., 15c.; 2 oz., 25c.; ¼ lb., 35c.; 1b., \$1.00.

M. & S. DWARF NAMED NASTURTIUMS

130. **Aurora**—Rich yellow, veined carmine.

131. **Chamelleon**—Produces various colors and markings on the same plant.

132. **Empress of India**—Dark-leaved, velvety dark scarlet flowers, select stock.

133. **Ladybird**—Rich yellow, scarlet spotted flowers, dark-leaved, splendid.

134. **Queen of Tom Thumbs**—Variagated foliage, choicest mixture.

135. **Golden Queen**—Yellow-leaved with golden yellow flowers.

Prices of all the above varieties as follows: Pkt., 5c.; oz., 15c.; 2 oz., 25c.; ¼ lb., 35c.; 1b., \$1.00.

136 M. & S. TALL OR CLIMBING NASTURTIUMS

136. **M. & S. Tall or Climbing Nasturtiums**—This mixture cannot be excelled for large size and beautiful colors of the flowers. Composed of the largest and finest varieties. For covering trellises, fences, arbors, piazzas, trailing from vases, over rock work, etc., nothing equally gorgeous effect produced by that great quantities of bloom from early summer until frost; height 8 to 10 feet. Pkt., 5c.; oz., 10c.; 2 oz., 15c.; ¼ lb., 25c.; 1b., 75c.

M. & S. SWEET PEAS (a) (Ger. Suesse Wicken)

Sweet Peas, owing to the extremely short crops for the last two years are very scarce, and whilst the prices quoted are not firm, we shall endeavor to adhere to them as long as we can. Intending purchasers are strongly advised to order as soon as possible after receipt of catalogue. It will be difficult to replace the seed when our supply is sold.

Through the skill of specialists, the Sweet Pea has become much larger and lovelier than before it became so popular. There are flowers of quite distinct shapes, some of which are a great improvement upon the Sweet Pea of the old type. For garden decoration it is now grown in clumps, and in separate colors. The plants are more robust, dwarf, branching, and bloom more freely; some varieties showing three to four blooms on a stem.

**HOW TO GROW SWEET PEAS**

A deep, rich, moist soil is best suited to Sweet Peas, hence a trench should be dug 1½ feet deep and filled with very best loam mixed with bone meal or well-rotted stable manure. The vines are usually grown in double rows, with a wire trellis or a row of brush between. For each double row make the drills about 6 inches deep, and 9 or 10 inches apart. Sow plentifully, covering about 2 inches deep, and by degrees, as the vines grow up, fill the trenches with soil, and thin out to about 2 or 3 inches apart. Spring sowings should be made just as early as the ground can be prepared. The earliest flowers are from seed sown in Fall, preferably in a dry situation, and 6 to 8 inches deep, giving them level culture. Sweet Peas should not be grown on the same soil year after year. If the location cannot be changed, the soil to the depth and width of a foot or so should be removed and replaced by soil from another part of the garden or grounds. If the soil is in good rich condition, bone meal is the best fertilizer.

SWEET PEAS LISTED ON NEXT PAGE

ALL FLOWER SEEDS 5 CENTS A PACKAGE UNLESS OTHERWISE NOTED.

NITROGEN BACTERIA "FARMOGERM"

The ideal preparation for treating Sweet Peas Seed when planting. Makes larger and more flowers, longer stems; prolongs the blooming period. 25c. and 50c. per bottle. See page 22 for full particulars.

137 M. & S. GILT EDGE SWEET PEA MIXTURE

This superb mixture is blended by us with extraordinary care from named varieties of the most improved large flowering type, including recent American and European novelties, as well as a great many new hybrids, as yet unnamed, insuring a gorgeous color effect. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; ½ lb., 40c.; lb., 75c.

138 SPENCER OR ORCHID FLOWERING MIXED SWEET PEAS

A special mixture of the finest Spencer type. Pkt., 10c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.



Spencer, or Orchid Flowering Sweet Peas

M. & S. SELECTED NAMED SWEET PEAS—Grandiflora Varieties

The varieties we offer below have been selected from a large list and embrace only the very best large flowering sorts and for freedom of bloom, size of flowers and strength of stem cannot be surpassed.

Mrs. Geo. R. Willis, of Bengies, Md., writes us: "Gentlemen: I want to say to you that I have had better success with your Sweet Pea Mixture than any I have bought."

- 139. *America*—Blood red striped on white.
- 140. *Apple Blossom*—Rose pink and white.
- 141. *Black Knight*—Maroon.
- 142. *Blanche Ferry*—Standard carmine rose, wings white tinged pink.
- 143. *Capt. of the Blues*—Bright blue.
- 144. *Countess of Radnor*—Delicate lavender standard, dark mauve wings, dainty, white edged pink.
- 145. *Dorothy Eckford*—Fine pure white large flowers.
- 146. *Emily Henderson*—Splendid pure white, good for forcing.
- 147. *Hon. Mrs. E. Kenyon*—Beautiful yellow.
- 148. *Firefly*—Crimson.
- 149. *Katherine Tracy*—Soft brilliant pink.
- 150. *King Edward VII.*—Bright crimson.
- 151. *Lady Grisel Hamilton*—Light lavender standard, sky blue wings; splendid.
- 152. *Miss Willmott*—Large orange pink.
- 153. *Prima Donna*—Lovely soft pink.

Prices on the above, each, package, 5c.; oz., 10c.; ¼ lb., 35c.; lb., \$1.25.

M. & S. NAMED SPENCER, OR ORCHID FLOWERING SWEET PEAS

These are noted for their unusually large-sized flowers and for the waved or fluted appearance of the petals.

- 154. *Asta Ohn*—Beautiful soft lavender, suffused lilac.
 - 155. *Blanche Ferry*—Bright rose, wings white flushed pink.
 - 156. *Illuminator*—Brilliant salmon cerise.
 - 157. *King Edward VII.*—Crimson self.
 - 158. *Lovely*—Bright pink and blush.
 - 159. *Mrs. Hugh Dickson*—Rich apricot cream, shaded pink.
 - 160. *Primrose*—Pure primrose or creamy yellow, very large.
 - 161. *White Spencer*—Beautiful large pure white.
- Price. Any of the above, pkt., 10c.; oz., 25c.; ¼ lb., 75c.

CHRISTMAS, OR WINTER FLOWERING SWEET PEAS

FOR FORCING INDOORS

This seed has been grown from originator's stock and can be depended upon for excellent results.

- 162. *Christmas Pink*—Pink and white.
- 163. *Christmas White*.
- 164. *Christmas Captain*—Blue and purple.
- 165. *Christmas Meteor*—Scarlet.
- 166. *Mrs. Wm. Sims*—Salmon pink.
- 167. *Mrs. Alex. Wallace*—Lavender.

Prices of all the above. Pkt., 10c.; oz., 25c.; lb., \$2.00.

168. *Everlasting Sweet Peas*. (*Lathyrus Latifolius*.) (Aussdauernde Wicke). (p.)—Flowers and foliage resemble Sweet Peas, free flowering. 7 to 8 feet. Pink, White and mixed colors. Pkt., 5c. each.

For postage add 5c each, dozen lots should be sent by express.

CLASSIFICATION OF DAHLIAS

Class 1. Cactus—This class embraces the long, narrow-petaled varieties, the petals of which are generally pointed or twisted.

Class 2. Decorative—This class is an intermediate form, having broad, flat petals.

Class 3. Fancy—This class takes in all variegated varieties.

Class 4. Peony Flowered—A semi-double of the decorative form.

Class 5. Pompon—This class embraces the small, round Dahlias.

Class 6. Show—The name Show applies to those varieties producing large, well-formed flowers, showing only solid colors, but may frequently have shaded tips.

Class 7. Single—Too well known to require a description.

BOX COLLECTION OF DAHLIAS

A new departure; put up in sets of ten assorted varieties, unlabeled, embracing a wide range of colors, Red, White, Pink, Yellow, Variegated, etc.; no two alike. This collection is put up in a telescope box and is sent through Parcel Post to any part of the United States for \$1.00.

M. & S. SUPERFINE DAHLIA ROOTS

Culture—One of the most important points in the cultivation of the Dahlia is to select a well-drained position where they will receive the full benefit of the sun during the greater part of the day.

As to soil, they are not at all particular, excepting that in the case of a stiff clay some loose material should be added, such as coarse sand, old mortar, or anything which will make the soil loose and friable. The soil must be well dug, and a liberal amount of suitable plant food incorporated. For this nothing is more satisfactory than well-decayed stable manure; but where this cannot be conveniently procured pure bonemeal, sheep manure, or any chemical fertilizer rich in ammonia and phosphoric acid will answer.

The planting of dormant roots in the latitude of Baltimore may be done at any time between April 25th and June 15th, the earlier planting being preferable. Plants must not be set out until all danger of frost is over, say May 10th.

Dahlias should be planted where they can be watered during the blooming period.

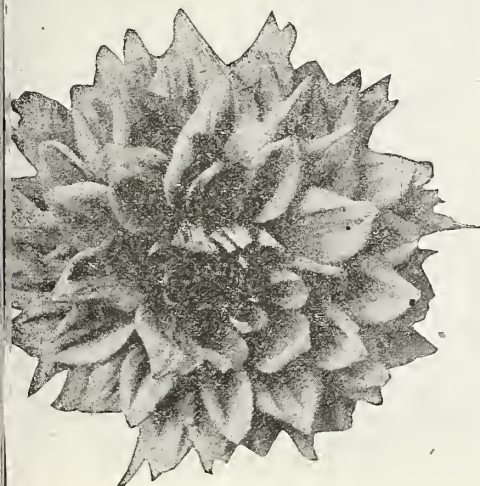


Box Collection of M. & S. Superfine Dahlias, \$1.00

After May 1st we can furnish started Dahlia Plants at the same price as roots.

CHOICE DECORATIVE DAHLIAS

Celeste Meyer—A superb Fancy Decorative Dahlia. Combining all the virtues of a first-class Dahlia.



Eleanor Stisser

leaving flower; a very prolific bloomer. Each 25c.; doz., \$2.50.

Eleanor Stisser—This variety is a tall grower, making a height of five to six feet, strong and vigorous. Its color is quite new in the Dahlia family, being a combination of shadings quite unique—Buff to Salmon Rose with a distinct shading of Pink, a pleasing combination of coloring and one that is especially effective in connection with Autumn foliage. Flowers well above the foliage. 25c. each; \$2.50 doz.

Jack's Discovery—White, mottled violet rose. 25c. each; \$2.50 doz.

Sebastapol—One of the finest of recent introduction. Flowers rich bright orange, of good substance, borne freely on long stiff stems. The best in its class and color, fine cut flower. 25c. each; \$2.50 doz.

Papa Charmant—Bright, glowing, velvet maroon. Perfectly formed flowers on long stiff stems. 25c. each; \$2.50 doz.

Baron Schroeder—Rich purple; highly recommended. 10c. each; \$1.00 doz.

Clifford W. Bruton—A fine bright yellow. 10c. each \$1.00 doz. **Delice**—Beautiful glowing, rosy Pink, good stems, fine for cutting. 15c. each; \$1.50 doz.

Golden West—The finest decorative yellow Dahlia in cultivation. 25c. each; \$2.75 doz.

Henry Patrick—A beautiful pure white. 15c. each; \$1.50 doz.

Jack Rose—Brilliant crimson-red, similar in shade to the popular "Jack" Rose, which suggested its name; perfect for garden decoration or for cutting. 10c. each; \$1.00 doz.

Lyndhurst—Brilliant cardinal-red. A fine cut flower. 10c. each; \$1.00 doz.

Mrs. Hartong—Golden-bronze; very fine. 10c. each; \$1.00 doz.

Matchless—Deep maroon with black shadings. 10c. each; \$1.00 doz.

Mrs. Roosevelt—Delicate Silver Rose. 15c. each; \$1.50 doz.

Mme. A. Lumier—Pale White, Violet Red Points. 15c. each; \$1.50 doz.

Sylvia—Soft, pleasing mauve-pink, gradually changing to white in the centre. A fine cut flower. 10c. each; \$1.00 doz.

Souv. de Gus Douzon—Immense flowers; a beautiful red, tall and grand bloomer. 15c. each; \$1.50 doz.

Our selection of the above named \$1.00 per dozen.

CHOICE CACTUS DAHLIAS

Kalif—Majestic flower. Frequently measuring over 9 inches in diameter, of perfect Cactus form, in color a pure scarlet. The habit of the plant is all that can be desired, growing, with us, about 4½ feet high; the gigantic flowers, which are produced very freely, are held erect on strong, stiff stems, making it a most effective and useful variety for cutting as well as for garden decoration. Kalif is of German origin, and is the first variety that has had the distinction of receiving the National German Dahlia Society's highest award—a silver medal. 75c. each.

Wolfgang von Goethe—Large, gracefully-arranged, perfect flowers of a rich apricot, with carmine shadings. 40c. each.

Rheinkönig—Pure snow-white flowers of splendid form, 5 inches and over in diameter. These are of great substance, lasting splendidly when cut; they are borne on long, stiff stems held well above the foliage, making it as valuable for garden decoration as for cutting. 40c. each; \$2.50 doz.

Gelber Prinz—One of the best deep yellows; brilliant deep buttercup yellow, with flowers of very large size, of fine form, full centre, and a splendid cut flower of remarkable lasting qualities. 50c. each; \$5.00 doz.

Fireworks—Ground color golden-yellow, striped and spotted with oriental-red. 25c. each; \$2.50 doz.

Aurora—A beautiful reddish-apricot suffused with flesh-pink, shading lighter to the tips. 15c. each; \$1.50 doz.

Blanche Keith—Grand flower. Yellow, free bloomer. 15c. each; \$1.00 doz.

Brittania—Deep salmon. 15c. each; \$1.50 doz.

Countess of Lonsdale—A peculiar but pleasing blending of salmon pink and amber, a color difficult to describe. Flowers freely under all conditions. 10c. each; \$1.00 doz.

Cockatoo—Lemon yellow, white centre. 15c. each; \$1.50 doz.

Floradora—Remarkably free-flowering, bright blood-red. 10c. each; \$1.00 doz.

DAHLIAS—Continued on next page

I planted some of your "M. & S." Sweet Pea Mixture last October and I have never had such beautiful flowers before.

Yours truly,

HARRY M. REVER, 2202 Boston Street, Baltimore, Md.

DAHLIAS—Continued

- General Buller**—Dark velvet maroon, white tips. 10c. each; \$1.00 doz.
- Gabriel**—Creamy-white, edged with vermillion. 10c. each; \$1.00 doz.
- Hunold**—Terra cotta red. 15c. each, \$1.50 doz.
- Kriemhilde**—A most popular cut-flower variety; perfect flowers on long stems; color a brilliant pink, gradually shading to white at the centre. 15c. each; \$1.50 doz.
- Master Carl**—Large, clear orange-salmon. 15c. each; \$1.50 doz.
- Mrs. H. J. Jones**—Bright scarlet, tipped white. 15c. each; \$1.50 doz.
- Progenitor**—Bright carmine, each petal being furcated on the end like a staghorn fern. 10c. each; \$1.00 doz.
- Standard Bearer**—Rich, fiery scarlet; free and of perfect form. 10c. each; \$1.00 doz.
- Volker**—Clear lemon-yellow. 10c. each; \$1.00 doz.
- Winsome**—Pure white; twisted petals. 15c. each \$1.50 doz.
- Our selections mixed of the above named, \$1.00 per dozen.

FANCY VARIETIES

- Lucy Fawcett**—Canary yellow, striped wine, show type, 10c. each; \$1.00 doz.
- Le Grand Manitou**—White ground color, prettily spotted, striped and blotched with deep reddish violet; dec. type. 25c. each; \$2.75 doz.
- Progress**—Bright, rose, penciled and spotted crimson; show type. 10c. each; \$1.00 doz.
- Prof. Mansfield**—Rich yellow, clear white, tips rosy red. Like all fancy varieties the color is very variable. Dec. type. 15c. each; \$1.50 doz.

SHOW VARIETIES

- Zebra**—Pearl white, edged deep pink. 10c. each; \$1.00 doz.
- Ethel**—Yellow, tipped white. 10c. each, \$1.00 doz.
- Ethel Maule**—Pure white, tinged lavender in centre, fine flower. 10c. each; \$1.00 doz.
- Souv. de Madam Moreau**—Deep rich pink; very handsome. 15c. each; \$1.50 doz.
- A. D. Livoni**—A splendid clear pink, beautifully quilled. 15c. each; \$1.50 doz.
- Frank Smith**—Intense purplish maroon, each petal tipped white, sometimes comes self colored a beautiful purplish maroon. 10c. each; \$1.00 doz.
- Chas. Lanier**—The largest deep yellow show dahlia to date. Very rich yellow and fine for cutting. 20c. each; \$2.00 doz.
- Grand Duke Alexis**—Large, massive flowers, ivory-white, with a faint tinge of rose at the extremities of the petals. 15c. each; \$1.50 doz.
- Cuban Giant**—Immense ball-shaped blooms of bright maroon; free and early. 15c. each, \$1.50 doz.
- Gloire de Lyon**—Fine large pure white. 15c. each; \$1.50 doz.
- Electric**—Soft magenta rose. 15c. each; \$1.50 doz.
- Ruby Queen**—Clear ruby red, richly shaded. 20c. each; \$2.00 doz.
- Yellow Livoni**—Undoubtedly the most perfectly quilled dahlia grown; flowers of medium size, but very perfect, of a soft lemon-yellow. 15c. each; \$1.50 doz.

PAEONY FLOWERING DAHLIAS

- Zeppelin**—Entirely distinct; a pleasing soft shade of lavender mauve. Flowers of medium size; of good form and very free flowering. Early bloomers. Price \$1.00 each.
- Mrs. Chas. L. Seybold**—Distinct, bright crimson pink, each petal tipped white. A strikingly beautiful variety. 25c. each; \$2.75 doz.
- Prairie Fire**—Rich scarlet. 20c. each; \$1.75 doz.
- Setting Sun**—Deep rich maroon, tipped scarlet. 40c. each; \$4.00 doz.
- Queen Emma**—Rose; beautiful, distinct flower. 15c. each; \$1.50 doz.
- Hon. R. L. Borden**—Large, distinct; rich golden bronze. 15c. each; \$1.50 doz.
- Geisha**—The showiest and most attractive of this type yet introduced. The flowers are original in form, consisting of peculiarly twisted and curled petals, of an effective and rich combination of scarlet and gold, the centre being yellow, which becomes suffused with and deepens to scarlet at the centre of the petals. 25c. each; \$2.75 doz.
- Queen Wilhelmina**—Pure white; splendid form. 15c. each; \$1.50 doz.

POMPOM DAHLIAS

- Crimson Queen**—Deep crimson shaded purple.
- Little Helen**—Pure white, splendid for cutting.
- Little Herman**—Deep red, tipped white.
- Little May**—Bright lemon-yellow.
- Day Break**—Beautiful light pink.
- Rosalina**—Yellow-edged crimson.
- All of the above 10c each; \$1.00 per dozen.

I purchased some Canna Roots from you last Spring and I never, in all my life, have had such beautiful flowers. They were admired by everybody who saw them.

Yours

NEW CENTURY, OR SINGLE DAHLIAS

- Twentieth Century**—Early in the season an intense rosy-crimson, shading gradually to almost white on the edges and a light halo around the disc. As the season advances the flowers become lighter, changing to almost pure white, suffused with soft pink. 15c. each; \$1.50 doz.
- Crimson Century**—Rich, deep velvet-crimson, shaded maroon, with rose halo around a yellow disc. 15c. each; \$1.50 doz.
- Fringed Century**—Intense rosy-crimson with lighter markings, fringed or cleft petals. 15c. each; \$1.50 doz.
- Pink Century**—Delicate soft pink. 15c. each; \$1.50 doz.
- White Century**—Pure white, with large, heavy, overlapping petals of good texture. 15c. each; \$1.50 doz.
- Sensation**—A gorgeous flower, brilliant vermilion red; heavily tipped and striped with white. No two flowers alike on a bush. 10c. each; \$1.00 doz.
- Big Chief**—Brilliant cherry red, margined rich, velvet maroon. 15c. each; \$1.50 doz.
- St. George**—Large, pure yellow. 15c. each; \$1.50 doz.
- Ami Barillet**—Scarlet-crimson flowers. Dark-bronze foliage. 15c. each; \$1.50 doz.

COLLARETTE DAHLIAS

- Eden**—A lovely, pure white collarette; admitted by dahlia experts to be the finest yet introduced. Good bushy habit, free flowering. Height 3½ feet. \$1.00 each; \$10.00 doz.
- Gallia**—Bright rose, suffused and tipped scarlet, passing to sulphur yellow. 10c. each; \$1.50 doz.
- Maurice Revoir**—Blood red, with a pure white collarette. 10c. each; \$1.50 doz.
- Prince Galitzine**—Rich crimson, white tipped collarette. 15c. each; \$1.50 doz.
- Goldstern**—A pretty self-colored deep canary-yellow, both ray and collar petals being of the same color. 30c. each; \$3.00 doz.
- Grandpapa Charmet**—One of the best of the new varieties of a brilliant velvety French purple with white collar. 35c. each; \$3.75 doz.
- On our new varieties, bulbs, may be scarce. In this case we will furnish plants.

JAPANESE FERN BALLS

A very attractive novelty; in dormant state, seven to nine inch bulbs. 35c. each. Parcel post weight 2 lbs.

M. & S. CHOICE PAEONIES

Parcel post weight 1 lb. each.

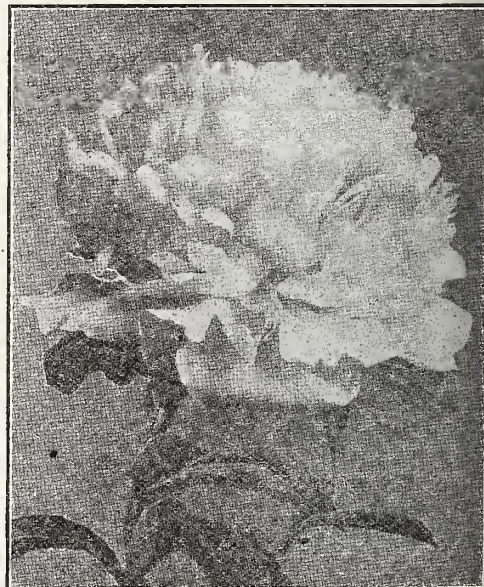
Double Paeonies are too well known to require description. Their present popularity is due to the great improvement in them in recent years, their easy culture, the handsome appearance of the plant, and the brilliant and striking effect of their massive, finely formed and richly colored flowers. The attention given to them, in Europe and America, has resulted in the production of many notably fine new varieties. Among hardy, herbaceous perennials, the Chinese Paeonies rank about first for lawn or flower-border, or shrubby decoration. They are all hardy.

Duchess de Nemours—Pure white, profuse bloomer. 25c. each; \$2.75 doz.

Jeanne d'Arc—Fine rose, centre creamy white and sulphur. 25c. each; \$2.75 doz.

Rosa—Beautiful pink. 25c. each; \$2.75 doz.

Rubra—Bright red. 25c. each; \$2.75 doz.



M & S Choice Paeonies

I purchased some Canna Roots from you last Spring and I never, in all my life, have had such beautiful flowers. They were admired by everybody who saw them.

Yours

H. M. GRESHAM, Tappahannock, Va.

MADERIA, OR MEXICAN VINE (Hardy)

The tubers, if planted deep and protected during the winter, are hardy. The leaf is very deep green, and grows very dense; the flower is small, white in color and fragrant. This very rapid growing vine should be planted wherever a dense, quick shade is desired. **Roots, 5c. each; 30c. doz.** Parcel post weight, 1 doz., 1 lb.

DOUBLE PEARL TUBEROSES**Double Pearl Tuberose**

Culture—One of the most fragrant and popular of the summer-flowering bulbs. May be started early in hotbeds or pots, or planted in open ground after first of May. The bulbs we offer are not to be compared with cheap ones—ours are sure bloomers. Soaking them over night in lukewarm water promotes rapid growth. **Two for 5c.; doz., 25c.; 100, \$1.25.** Parcel post weight, 1 doz., 2 lbs.

**Elephant Ear****MONTBRETIA**

A beautiful flowering bulb resembling a miniature Gladiolus, absolutely hardy, and only effective if planted in masses from 50 to 100 bulbs in a lump. They are fine for cutting, being very showy, the orange scarlet and yellow shades being especially attractive. Height 24 inches. **25c. doz.; \$2.25 100, postpaid.**

**Montbretia****CALLADIUM ESCULENTIUM (Elephant's Ear)**

As centre pieces of specimen in flower beds Calladiums answer all. They also make an excellent edging for a hardy bed of grass, for Ricinus and other tall growing plants. When planted in a bed alone, a border of Scarlet Sage removes the one color effect and makes a beautiful contrast. Do not plant Calladiums outdoors until after May 1st, but to get them in early growth they may be started indoors.

Monster Bulbs—15c. each; \$1.50 doz. Parcel post weight 1 lb. each.

Mammoth Bulbs—10c. each; \$1.00 doz. Parcel post weight ½ lb. each.

M. & S. SUPERFINE GLADIOLUS

If by Parcel Post, add postage at Zone Rates (average weight 10 lb. per 100). Single Bulbs and Dozens we deliver free in United States.

Cultural Hints on Gladiolus—A sunny location is very essential. The soil should be one that has natural drainage, and should be thoroughly enriched with well-rotted manure. Start to set the bulbs out about April 1st. To get best effects, have about 6 inches of space between them. They usually flower 90 days after planting. In order to have a succession of flowers until frost, make a planting about every 10 days, up to July 1st. It is advisable to purchase the bulbs at one time, as they are frequently not obtainable later in the season. While growing, bulbs should be thoroughly cultivated, and should be given a top-dressing of Sheep Manure and Bone Meal. As the bulbs begin to flower, plants should be supported with a suitable stake, to prevent them from breaking off.

**M. & S. Choice Mixed Gladiolus****Gladiolus "America"**

M. & S. Choice Mixed Gladiolus—Composed of all named varieties in gorgeous blending. **5c. each; 35c. doz.; 100, \$1.75.**

M. & S. NAMED GLADIOLUS

America—A beautiful flesh pink, tinged with lavender. A variety of robust growth and easy cultivation. The flowers are very large and expanded, many being open at one time. **5c. each; 50c. doz.; 100, \$2.25.**

Brenchleyensis—Splendid for garden effects, as all the flowers appear at one time. Vermillion scarlet color, ideal for planting in front of shrubbery. **5c. each; 35c. doz.; 100, \$1.75.**

Baron Joseph Hulot—Deep indigo blue, slightly marked white at the base of the throat; very attractive when arranged with yellow flowers in a vase. **5c. each; 40c. doz.; 100, \$2.00.**

Princeps—Amaryllis-shaped, gigantic flowers of a dazzling bright scarlet, marked with white on the lower petals. Two to three flowers open at one time. **5c. each; doz., 50c.; 100, \$2.25.**

Halley—Delicate flesh rose, with white blotch, very lovely. **5c. each; 35c. doz.; 100, \$1.75.**

Empress of India—Brilliant scarlet suffused rich maroon-red with white throat. **5c. each; 60c. doz.; \$2.50 100.**

Panama—A grand new seedling of America which it resembles, but is of deeper pink; flowers very large and spike long. **5c. each; 75c. doz.; \$5.00 100.**

Lily Lehman—Beautiful ivory-white, faintly-tinted rose without markings; large flower with frilled edges. **5c. each; 60c. doz.; \$4.50 100.**

Willy Wigman—A grand cream-white flower; the lower petal marked dark red on a yellow blotch; early. **5c. each; 60c. doz.; \$4.50 100.**

M. & S. SUPERFINE CANNA BULBS



In almost every private garden, in all public parks and in most of the large cemeteries, Cannas are used with the greatest effect to adorn the surroundings. It is difficult to convey in language an idea of the beauty of the Canna plant and flower.

Culture—Canna tubers should not be put into the ground until the soil has become warm. They commence blooming in June and continue until late in September. Every shoot bears a flower and these shoots are being constantly produced throughout the blooming season.

Note. Our prices are for dormant roots in strong divisions of two and three eyes. After May 1st our stock of roots is usually sold, at which time we can fill orders with well-developed plants of any vari-

ety on this page at 5c. each; 50c. doz.; 100, \$4.50 (except where noted).

Firebird. (Oiseau de Feu)—A remarkable novelty with perfectly formed flowers, 7 to 8 inches in diameter, of a brilliant cardinal-red; the foliage is of heavy, leathery texture; requires rich soil for best development; 4 feet. \$1.00 each.

Gladlator—One of the finest bedders, color deep yellow freely dotted with red; 4½ feet.

Maros—One of the best white-flowering Cannas. Its flowers of creamy-white are produced very freely; 3½ to 4 feet.

Wyoming—Bronzy-purple foliage, with immense spikes of massive orange flowers.

Price: Any of the 3 above, 15c. each; \$1.25 per doz.; \$5.00 per 100.

Mrs. Alfred F. Conard—This has become the most popular pink Canna ever introduced and it is unsurpassed for planting either singly or in large beds. Its exquisite salmon pink flowers are of largest size. Wonderfully profuse in blooming, large head. 4 feet. Green foliage. **Price, dormant roots to April 1st, 40c. each; \$4.00 per doz.**

King Humbert—Truly a king among the Cannas, its majestic growth is doubly enhanced by a massive coppery scarlet flower and the broad deep bronze foliage. It grows 4 feet high and is splendid either as a centre, edged with a dwarf yellow Canna, or vice versa, placing it around a centre of a tall yellow variety. **Roots, 7c. each; 75c. doz.; 100, \$6.00. Plants, 10c. each; 90c. doz.**

Charles Henderson—Grows 4 feet high; rich crimson; green foliage.

Florence Vaughan—Grows 5 feet high; green foliage, rich golden yellow, dotted red.

Austria—Pure canary yellow, reddish dots in centre, 3½ feet high, green foliage.

Italy—Yellow, blotched red, 5 feet high; green foliage.

Black Beauty—Deep crimson, bronze foliage; 6 feet high.

Mme. Crozy—Bright scarlet, golden border, 3½ feet high; green foliage.

Mme. Berat—The nearest approach to a pink; is a first-class bedder; 4 feet; green foliage.

Mont Blanc—The only pure white Canna; large flowers; 3½ feet; green foliage.



King Humbert Canna

Richard Wallace—Very large, 4 feet high; green foliage, yellow flowers.

Queen Charlotte—Makes a gorgeous display when planted in masses; color a wide band of yellow, bordering a centre of scarlet; 3 feet high; green foliage.

Egandale—Bronze foliage; currant red flower; 4 feet high.

Venus—One of the softest and most delicate varieties ever introduced; flowers fair size, soft, rosy pink, with border of creamy yellow; bright green foliage; 3½ feet.

Prices of the above or mixed, 5c. each; 50c. doz.

AMARYLLIS (Ready in August)

Extremely ornamental house plant, with large, fragrant, beautifully colored flowers; with a little care they will bloom every season.

There are a great many species of Amaryllis, all producing lily-like flowers, but varying in color from rich crimson and scarlet to pure white, and in size from delicate blossoms scarcely an inch in diameter to those six to nine inches across.

Belladon—Pink. 25c. postpaid.

Johnsoni—Red and white; extra large bulbs. 35c. each, postpaid.

Amaryllis, Hybrids of Hippeastrum—In offering this selection of seedlings we believe that they are the best obtainable at the present time, and we know of nothing that we can recommend that will give the amateur greater pleasure for his window garden. They have been grown from seed which has been produced by crossing the finest-named varieties obtained from the most noted specialists; the cream of their collections, and the resulting strain embodies with vigorous growth, free flowering habit and enormous size of the individual flowers; a really wonderful range of colors, varying from deep crimson to bright orange-scarlet, and from light rose to almost pure white, many of them beautiful combinations in stripes and variegations. Mixed varieties only in very strong bulbs. 75c. each, postpaid.



Amaryllis

BEGONIAS—TUBEROUS ROOTED



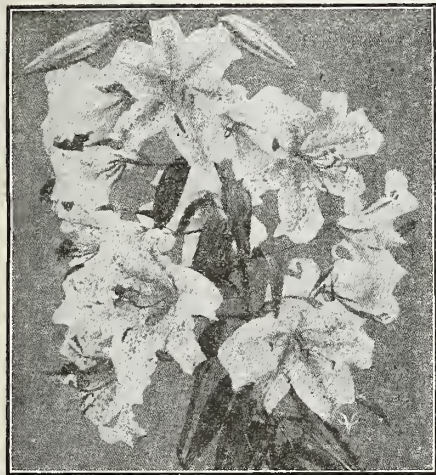
Single Plant of Tuberous Rooted Begonia

There hardly is a single garden in which there are not semi- or entirely shaded spots where the average flower will not grow; such places are ideal for this flower; yet it will make a dazzling show in the open. Enormous wax-like flowers appear uninterruptedly from June till frost. The bright flowers contrast well with deep-colored foliage. The bulbs must be lifted in the Fall. If you have never grown them, try them this year. Start your bulbs in March and have flowers in June. Plant bulbs outdoors not before May 1st. Splendid pot plants for the house or for bedding. For bedding they should be started in hot-bed in March and but slightly covered. Water sparingly until the plants are growing.

PRICE—Next page

SINGLE VARIETIES—Crimson, Orange, Pink, White, Yellow, or Mixed; all 5c. each; 50c. doz.; postpaid.
DOUBLE VARIETIES—In separate colors, as above, or mixed, all colors; 5c. each; 50c. doz., postpaid.

LILIUM (Lily) Postpaid



Lillium Auratum

All herbaceous borders should have a few Lillies scattered through them. The sorts offered below can be planted with excellent results during the early Spring months. It is in the hardy border that Lillies do best, as they get the benefit of the shade of the surrounding plants, which is so necessary for their welfare; other varieties should be planted in the Autumn, and are offered in our Autumn catalogue.

Auratum (Gold-banded Lily)—Large, graceful flowers, composed of six petals of a delicate ivory-white, thickly studded with

chocolate-crimson spots and striped through the centre a golden yellow. 20c. each; \$2.00 doz.

Speciosum Album—Large white flowers of great substance, with a greenish band running through the centre of each petal. 20c. each; \$2.00 doz.

Speciosum Rubrum, or Roseum—White, heavily spotted with rich, rosy-crimson spots. 15c. each; \$1.50 doz.

Speciosum Magnificum—Rich, deep red. 15c. each; \$1.50 per doz.

Tigridium Splendens. (Tiger Lily)—Very large flowers; range, spotted black. 10c. each; \$1.00 doz.

HYACINTHUS CANDICANS (Cape Hyacinth)

A snow-white Summer-flowering Hyacinth, growing 3 to 5 feet in height, gracefully surmounted with from 20 to 30 pure white, bell-shaped flowers. 5c. each; 50c. doz. Parcel post weight, 1 dozen, 1 lb.

Plants should be sent by Express whenever possible, to insure safe delivery.

We are pleased at all times to submit plans and suggestions or laying out hardy plant borders, evergreens, orchards, etc. We are not, however, prepared to undertake the planting thereof, but can recommend good, reliable parties for this. Correspondence solicited.

ROSES—Perpetual, Tea and Climbing

Special Directions for Planting Roses—Open a good space in the soil and spread roots; never cramp them into a small hole. Do not let manure come in contact with roots, but place it underneath and a layer of soil on top. If the rose is a bush plant, set it so deep that only branches are visible above ground, and never the main stem, but too deep is as bad as too shallow; 2 to 4 inches of the lower branches may be under the surface, but no more. If the plant is a budded or grafted rose, be sure that the bud or graft is fully 3 inches below the surface. Prune in spring only, when life is just apparent, and remove what might appear to be surplus wood. The strongest growth should be cut back to within 6 inches above ground; the weaker growth to 4 inches. All soil above the roots should be well pressed down. Feed your Roses with "Ground Bone" and Pulverized Sheep Manure or "Poudrette." Mulch the ground around Summer. The best remedy against the rose bug is "anatus;" this positively destroys them and does not injure the flower or blossom. See index page.

TEA, OR MONTHLY BLOOMING ROSES

All our roses are two-year-old vigorous plants.

Killarney—This is, perhaps, the best known of Dickson's famous Irish Hybrid-Tea Roses, and is one of the most popular of our garden Roses, and also one of the leading varieties for winter cut flowers. It is perfectly hardy; in growth it is strong and robust and as free-flowering as any Rose we know. In color it is a sparkling brilliant pink; the blooms are large, the buds long and pointed, the petals very large and of great substance, and just as handsome in the full-bloom flower as in the bud form.

White Killarney—A pure white sport of the popular Killarney Rose; identical in every way with its parent, excepting in color, which is a pure white.

My Maryland—One of the finest American introductions. Very free-flowering, every shoot bearing one or more flowers, which are double, of perfect form, of a bright but tender salmon-pink, which lightens up beautifully as the flower expands; delightfully fragrant.

Pink Maman Cochet—Deep rosy-pink.

White Maman Cochet—Snowy-white blooms.

Kaiserin Augusta Victoria—Pure white.

Gruss au Teplitz—Rich rosy-red.

Richmond—Fine dark red, good free bloomer.

Heien Gonid—Rosy-red.

American Beauty—Deep crimson.

Hermosa—Fine, old, pink rose.

NOTE—All Plants are forwarded by Express, purchaser paying charges. If wanted by Parcel Post add 10 per cent. to value of order for postage to points east of the Mississippi River, and 20 per cent. to points west of the Mississippi River. Roses by Express only.

La France—Fine pink.

Laurent Carle—Deep rosy carmine; full flowers.

Chateau de Clos Vougeot—Deep velvety crimson; medium-sized blooms.

Mrs. Aaron Ward—A conspicuous rose on account of its coloring which is new; as a bud it is deep Indian yellow, as it opens it adopts a broad margin of light yellow on the inner edge, when fully opened it is light yellow throughout. Very free bloomer, the flowers are very exquisite.

W. R. Smith—Blush white, suffused bright rosy pink, with large, well-formed flowers.

Farbenkonigin, or Queen of Colors—A very attractive and showy variety, the large, fragrant flowers being a most desirable imperial pink. One of the most popular Roses in Europe; and especial favorite with German rose-growers.

Etoile de France—Intense brilliant crimson of fine fragrance, producing elegant pointed buds, which open into an extra large flower.

Souvenir de Pierre Notting—A beautiful canary-yellow, suffused with apricot in the centre; flowers of good size; a very pretty rose.

Sunburst—Long pointed buds; golden orange flowers; very free bloomer and a strong grower.

Prince de Bulgarie—Silvery flesh, delicately shaded salmon and coppery yellow.

Radiance—Bright pink, full flowers; freely produced.

Friedrichsruhe—Dark velvety maroon red, very fine flower.

Dinsmore—Beautiful bright red, exquisite flower and good bloomer, very finely scented.

Miss Alice de Rothschild—Of recent introduction. In color a rich, deep citron-yellow, which intensifies as the bloom expands. The flowers are very large, full and of perfect form, with highly pointed centre; the petals charmingly reflex. The growth is vigorous, erect and free, continuous in blooming, deliciously fragrant; a superb Rose in every respect.

Souvenir de President Carnot—A Rose that pleases everybody; fine in form, of large size and delicate in color; a soft rose shading to white.

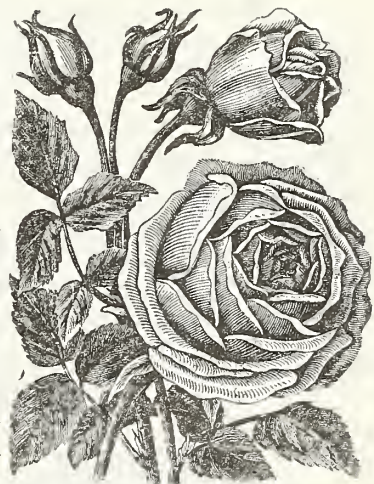
Rhea Reid—Splendid form; good rich red color; a grand rose.

Mrs. B. R. Cant—Clear, bright rose; very double and sweet; an immense bloomer.

Souv. of Watton—Fine red, good flower; profuse bloomer.

All two-year-old vigorous plants.

All of these varieties have given good results for outdoor culture. Price, each, 50c.; \$5.00 doz.



Kaiserin Augusta Victoria

CLIMBING ROSES

Tausendschon, or "Thousand Beauties"—A beautiful, new climbing Rose, which has leaped into popularity by its inherent merit and beauty. The name "Thousand Beauties" is very appropriate and refers particularly to the wonderful variety of colorings found on any one plant. The flowers are soft pink at first, but as they age the most beautiful shades of carmine-rose, cerise, blush and soft white with a gleam of light yellow, soft crimson and intermediate tints; a combination of charming coloring, which is bewildering. 75c. each.

Excelsior—A distinct variety in form, color and habit. The color is an intense crimson-maroon, with tips of the petals tinged scarlet. Flowers are large and double, produced thirty to forty on a stem, and almost every eye on a shoot produces a cluster of bright blossoms. The individual flowers are very large for a climbing Rose, being similar to those of the General Jacqueminot, only the petals are of a more loose form. This may be termed a great improvement on the Crimson Rambler.

CLIMBING ROSES—Continued on next page

CLIMBING ROSES—Continued

which is it sure to supercede, if only on account of its foliage, which is mildew proof; waxy, healthy and lustrous. **\$1.00 each.**

White Dorothy Perkins—Exact counterpart of Pink Dorothy Perkins, excepting color. **50c. each.**

Reine Marie Antoinette—Frequently referred to as the red Gloire de Dijon. It is an exceptionally good variety and will please everyone who favors climbing roses. A sturdy climber and ever bloomer, thriving especially well in protected positions. Elegant in bud, with large foliage, free from mildew. **75c. each.**

Silver Moon—Flowers very large, four and one-half inches and over in diameter, pure white in color, petals of great substance, beautifully cupped, forming a Clematis-like flower. The large bunch of yellow stamens in the centre adds to its attractiveness. These flowers are borne on strong stems 12 to 18 inches long, and are delicately scented. The plant is a strong grower, with large, glossy bronze-green foliage. Strong two-year-old plants, **75c. each.**

Crimson Rambler—Large clusters of crimson flowers. **50c. each.**

Dorothy Perkins—Soft shell pink, flowering profusely in large clusters. **50c. each.**

Aviator Bleriot—(The New Yellow Rambler)—We have discarded the old yellow Rambler in favor of this new variety, in which we have a strong growing plant with beautiful glossy, insect and disease-proof foliage, and bearing large clusters of medium-sized full double flowers of a saffron yellow, deepening to an almost golden-yellow at the centre. Strong two-year-old plants. **75c. each.**

Climbing American Beauty—Flowers are very full, double, often 5 inches across and of a rosy crimson; a splendid pillar rose. **75c. each.**

HYBRID PERPETUAL ROSES

All two-year-old vigorous plants.

General Jacqueminot—Brilliant scarlet-crimson; an old favorite and one of the best known roses in cultivation; does well everywhere.

Paul Neyron—Clear shining pink, very fine. The largest of all rose blooms, very double and full, finely scented, grows to great height in a single season and stems are almost thornless.

Frau Karl Druschki—This is the ideal hardy white Rose, pure in color, perfect in form; strong grower and remarkably free-flowering; superb in every way. **All, each, 50c.; \$5.00 doz.**

Geo. Dickson—A majestic Rose whose imperious size, contour, color, and rare perfume (rich syrupy-rose-tea)—each the last word in what a Rose should be—at once stamp it as a perfect Rose and a Rose without compeer. The color is velvety-black, scarlet-crimson with brilliant scarlet reflexed tips, with heavy and uniquely pure crimson-maroon veining on the reverse. The blooms open naturally. Awarded Gold Medal, National Rose Society of England. **\$1.00 each.**

M. & S. EARLY-FLOWERING CHRYSANTHEMUM PLANTS

For Parcel Post add 5c. a plant. Dozen Lots per Express Only.



Mary Mason—Gigantic, bronzy-red; one of varieties and easiest doers in cultivation.

Crimson Marie Masse—A crimson sport.

Ralph Curtis—Creamy-white sport of M. Masse.

Horace Martin—Deep-yellow sport of M. Masse.

Mlle. Marie Masse—Beautiful lilac mauve.

Bobby Burns—A rosy cerise.

White Quintus—Pure white.

M. Cassimer Perrier—White, tinted pink.

Louise Le-maire—Beautiful golden-yellow.

C. H. Totty—Aglowing chestnut-scarlet; flower, stem and foliage are alike enormous. One of the best all-around Chrysanthemums we have ever introduced to the American trade.

Colonel Appleton—At one time the most largely grown yellow in cultivation. It is too well known to need description.

Mrs. O. H. Kahn—A first-class bronze; comes good on almost any bud, but produces the best color from a bud taken August 20th or later. One of the finest varieties in the bronze section.

All of these Early Flowering Varieties have given good results for outdoor culture. Ready for delivery after May 1. **Each, 15c.; doz., \$1.50.**

HARDY POMPON CHRYSANTHEMUM

These are now universally popular for outdoor bedding, and considering their many good qualities, there is no cause for surprise to see them cultivated so extensively. They produce lavish profusion of blooms, giving color, life and beauty to the garden just at a time when other plants have been destroyed by frost and are looking their worst. Frost does not materially affect the flowering, and it will frequently happen that a profusion of flowers can be cut late in November. They are quite hardy if planted in a well-drained position, and, with a slight covering of leaves or litter during the winter, will take care of themselves after once planted.

Pink Diana—Fine free blooming.

Early Bronze—Very effective.

Golden Martha—Profuse bloomers.

Florence Stanton—Gold, good size.

Garaza—Single white.

Little George—Red, true Pompon.

Donald—Pink, true Pompon.

Alma—Light pink, true Pompon.

Golden Climax—Yellow, true Pompon.

Diana—White, true Pompon.

Ida—Light yellow, true Pompon.

Waco—White, good size.

All the above, 15c. each; \$1.50 doz.

HARDY PERENNIAL PLANTS

Ready April 15th.

For Postage add 5c. each. Dozen Lots Express Only.



Delphinium, or Larkspur (Hardy)

	Each	Doz.	100
Aquilegia (or Columbine).....	\$.20	\$1.75	\$12.50
Coreopsis .....	.15	1.50	10.00
Campanula .....	.20	1.75	12.50
Digitals .....	.20	1.75	12.50
Delphinium (or Larkspur).....	.15	1.50	10.00
Dianthus (or Hardy Pinks).....	.15	1.50	10.00
Fox-Glove .....	.15	1.50	10.00
Funkia (variegated).....	.25	2.75	17.50
Golden-Glow .....	.15	1.50	10.00
Gypsophilla (or Baby's Breath).....	.20	1.75	12.50
Gaillardia .....	.15	1.50	10.00
Helianthus (or Sunflower).....	.15	1.50	10.00
Holly-Hocks (Mixed).....	.25	2.50	15.00
Hardy Primulas (English).....	.15	1.50	10.00
Hardy Asters .....	.15	1.50	10.00
Iris Germanica .....	.15	1.50	10.00
Iris Knaempferi (Japanese).....	.25	2.75	17.50
Iris Sibirica .....	.20	1.75	12.50
Pyrethrum .....	.15	1.50	10.00
Phlox .....	.20	1.75	12.50
Poppies .....	.20	1.75	12.50
Rudbaki .....	.15	1.50	10.00
Spirea (variegated).....	.15	1.50	10.00
Sweet Williams (New Port Pink).....	.15	1.50	10.00
Snape-Drage .....	.15	1.50	10.00
Shasta Daisy .....	.15	1.50	10.00
Veronica .....	.20	1.75	12.50
Lily of the Valley Clumps.....	.20	1.75	12.50

THE EVERBLOOMING BUTTERFLY BUSH (Buddleia Variabilis Magnifica)

Recently Introduced by a Leading Philadelphia Seed House
READ WHAT THEY SAY ABOUT IT

It was a matter of some thought before we finally christened this highly desirable plant with the common English name by which it goes. Several years ago we imported from Europe some plant novelties and this was among them. We observed it carefully for a season, and were charmed with its beauty, ease of culture and free-flowering habit. The name "Butterfly Bush," was applied to it because it seemed to attract butterflies in large numbers. Particularly we noticed that it was not the common little yellow species of butterfly, but rather the large and gorgeously colored ones that swarmed about it as though vieing with it in brilliancy of color. This shrub from a young plant set out in May will mature to full size the first season, producing a handsome bush which the first year often attains a height of four feet. It produces long, graceful stems which terminate in tapering panicles of beautiful lilac-colored flowers that are of miniature size and borne by the hundreds on a flowerhead which is frequently ten inches long. A single plant the first season will throw out as many as 50 flower spikes, which increase greatly in number during succeeding years. The year after planting it generally commences to flower in June and continuing each season until severe frosts nips it. It is rather semi-herbaceous, by which we mean in some latitudes it will die down to the ground and while perfectly hardy, we do recommend covering the roots with manure, as winter approaches, as this will produce a heavy growth the following season. This plant is very desirable as an individual specimen in the lawn and garden, or placed promiscuously in the shrubby border.

Special Merits:

1. Very hardy.
2. Blooms the first season.
3. Flowers from early summer till frost.
4. Rich, striking color.
5. Splendid for cutting. Very free flowering.
6. Will thrive anywhere.

Order early, as last year we could not supply sufficient.

Price for strong young plants, which will bloom the first season (ready in May), 50c. each; \$5.00 doz.

HARDY AND DECORATIVE DICIDUOUS SHRUBBERY

Sent via Express Only.

Hydrangea Paniculata Grandiflora

Hydrangea Paniculata Grandiflora—The large panicles of white flowers are at their best during August; later they take a reddish cast. These plants look fine used as single specimens on the lawn or grouped in large beds. Strong plants, c. each; \$5.00 doz.

Hydrangea Arborescens Grandiflora Alba (Snowball Hydrangea)—The snow-white blooms are of the largest size. It comes into bloom early in June, lasting until late August. Is more hardy than any other sorts, and especially suited to plant shaded places. 50c. each; \$5.00 doz.

Gentlemen: The Butterfly Bush I bought of you is 5 feet high and 5 feet in diameter; flowers 8 to 12 inches long. There were 175 flowers on one bush which has been blooming since June 1st.

Yours truly,

Hydrangea—Tree, stripe white turning red. \$1.00.
Hydrangea Hortensia Otaska—These stately plants make ideal showy effects, especially desirable for seashore. If protected in the winter, they will live outdoors for years. Rich pink. Strong plants. 05c. each; \$5.00 doz. Large plants, \$1.00 each.

This class of Hydrangeas (Otaska) can be changed to blue by mixing into the soil around the plant a few handfuls of soot or iron filings. If this is not obtainable some lump alum broken into small pieces can be substituted, about one-half pound to each plant.

Almond—Red or white flowering. 75c.

Althea—White, purple, red. 50c.

Barberry—Very useful as hedge. 50c.

Bridal Wreath—White flowers. 50c.

Dutzia—Pink or white flowering. 50c.

Forsythia—Yellow, very early. 50c.

Hydrangea Tree—White turning red. \$1.00.

Lilac—Purple or white flowering. 50c.

Magnolia—White and purple flowering. \$2.50.

Mock Orange—Golden leaved. 50c.

Pyrus Japonicus—Japan Quince, scarlet. 50c.

Spiraea—Crimson, white or pink flowering. 50c.

Snowball—Japanese and common. 50c.

Weigela—White, crimson, pink. 50c.

TRITOMA

(Flame Flower, Torch Lily, or Red Hot Poker Plant).



In mid-Summer and Autumn, when other flowers are on the wane, the Tritoma looms up and furnishes a wealth of bloom till killing frosts check it. A vase of these arranged with Autumn leaves or ornamental grasses make a handsome effect. The roots are considered hardy, though we, however, recommend that they be lifted in the Autumn and placed in a box of soil or sand, preferably in the cellar. There are a number of varieties in commerce, but the sort mentioned below seems to be demanded most and fill every need.

Pfitzeri—Blooms from August till October; rich orange scarlet.

We are now taking orders for next May delivery for good, strong plants. 25c. each.

EVERGREEN SHRUBS AND TREES

Mahonia Aquifolia—Holly-like leaves, very handsome yellow flowers in May; especially good for shady places; 18 to 24 inches. 50c. each; \$5.00 doz.

Rhododendrons—One of the most beautiful plants in cultivation; either as a single specimen or in masses; we have an assortment of colors; 18 to 24 inches. \$2.00 each.

YUCCA (Adam's Needle)

This plant sets off to best advantage if placed as individual specimens either on the lawn or in the shrubby border. The foliage is of an evergreen nature, is slender and pointed. The tall flower spikes rise 4 to 5 feet above the plant and are decked with cream white bell-shaped drooping flowers in July and August. Truly a majestic plant, and especially fine for producing tropical effects. 50c. each; \$5.00 doz.

Arborvitae American. **Firs**, **Balsam** and **Nordmans**. **Junipers**, **Irish** and **Japanese**. **Pine**, **White**, **Scotch** and **Austrian**. **Retinosporas**, **Plumosa** and **Plumosa Aurea**. **Squarosa Veitchii**, **Spruce**, **Norway**, **Kosters** and **Colorado Blue**. **Yew**, **Drupacea** and **Fortunis Boxwood**. Small Trees from \$1.00 to \$2.00. Larger trees, price as to size and variety. Let us quote you.



Evergreen

high and 5 feet in diameter; flowers 8 to 12 inches long. There were 175 flowers on one bush which has been blooming since June 1st.

CHARLES W. ARMIGER, 3019 Brighton St., Walbrook, Md.

HARDY CLIMBING VINES

Clematis—Large flowering hybrids; purple, white or red. 50c. each.

Clematis Paniculata—Small; white flowering; very fragrant; strong grower. Most satisfactory Clematis that grows. Large plants. 35c. each.

Wisteria—White and purple. Two years old. 50c. each.

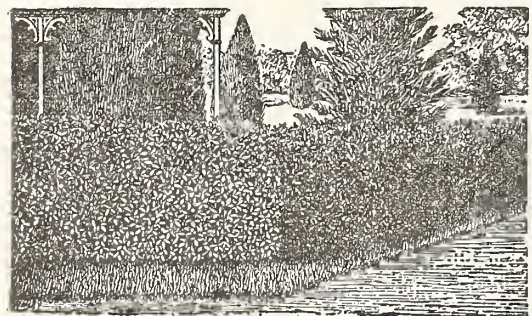
Trumpet Vine—Two years. 50c. each.

Honeysuckle—Popular climber. 25c. each.

Ampelopsis Veitchii, (Boston Ivy, or Japan Ivy)—The most popular climbing plant for covering brick, stone, or wooden walls, trees, etc.; when it becomes established it is of very rapid growth and clings to the smoothest surface with the tenacity of ivy; the foliage is of a rich olive green during the Summer, changing to various shades of bright crimson and scarlet in the Fall. In planting Ampelopsis of all kinds, the plants, if still in a dormant condition, should be cut down to within 6 inches of the ground, so that the new growth may cling to the wall or tree from the bottom up. Extra strong two-year-old plants. 25c. each; \$2.50 doz.

HEDGE PLANTS

California Privet—Exceedingly beautiful; leaves deep green, bright and very glossy; easily transplanted. The plants we supply have been grown under our own supervision, and only selected stock is sent out.



Hedge of California Privet

It is unlike a fence which needs painting, repairing, etc., and never looks well. This hedge is no further expense after planted, and it adds dignity and charm to any home, and increases the value of real estate. Being absolutely hardy, it increases in its beauty with each successive year, and the possibilities are amply displayed at some of the model suburban home grounds in and around Baltimore. Privet is somewhat

of an Evergreen nature, and looks attractive until real winter sets in. To establish a good hedge, the proper foundation is necessary. The trench should be thoroughly manured, and receive an additional liberal application of Pure Bone Meal and both worked in with a spade. Plants should be set 12 inches apart in double rows, in zigzag fashion, so that the plants are diagonally opposite each other, this practically places them 6 inches apart which is desirable to get a quick dense growth. Plant from October 1st to November 15th, and from March 15th to May 15th.

Two years, 3 to 4 ft., \$5.00 per 100; \$37.50 per 1,000. Two years, 2 to 3 ft., \$4.00 per 100; \$32.50 per 1,000. Two years, 1½ to 2 ft., \$3.50 per 100; \$25.00 per 1,000.

Berberis Thunbergii, (Japanese Barberry)—A good, hardy plant of low dense growth. There is an air of grace and refinement to the Barberry Bush, which is not embodied in any other hedge plant. It is a brilliant light green from early Spring to Winter. It has a manner of growth which does not give it the stiff, cold appearance which many other hedge plants have. It should really be regarded as a shrub, as it can be planted individually in lawn or border. The slender branches are prickly with small thorns, and tend to make a defensive hedge that few animals will attempt to penetrate. In Autumn the foliage is a bright crimson; when it falls a profusion of scarlet berries, which remain throughout the Winter, are revealed on the branches.

Price of Berberis, 1½ to 2 ft., \$2.00 per doz.; \$15.00 per 100. 2 to 2½ ft., \$4.00 per doz.; \$27.50 per 100.

CHOICE BEDDING PLANTS

Ready April 15th to June 1st. Special prices in quantities.

Verbenas, **Nasturtiums**, dwarf and tall; **Alyssum**, **Coleus**, **Lobelia**, **Cosmos**, **Ornamental Grasses**, **Alternanthera**, **Ageratum**, blue and white; **Lantana**, **Mignonette**, **Wandering Jew**, **Parlor Ivy**, **Ivy** and **Rose Geraniums**, **Pansies**, **Cigar Plant**, **Dusty Miller**, **Scarlet Sage**, **Bonfire Dwarf**, **Splendens**, tall; **Abutilons**, dwarf, border plant; **Asters** and many more. 5c. each, 50c. doz.

Geraniums—All popular varieties from 4 -inch pots, \$1.00 doz.; 3-inch pots, 75c. doz.

Petunias, **Heliotrope**, **Fuchsias**, **Snapdragon**, **Sultana**, **Moon Vines**, etc., 10c. each; \$1.00 doz.

ORNAMENTAL GRASSES—Strong Clumps

Pampas Grass, (*Eulalia*)—Striped lengthwise. 35c. each; \$3.00 doz.

Pampas Grass, (*Zebrina*)—Striped crosswise. 35c. each; \$3.00 doz.

Fruit Trees and Berries

CHERRIES



Black Tartarian Cherries

quality; deep golden yellow, aromatic, spicy and rich. Tree vigorous and productive.

Black Tartarian Cherry—Very large; purplish black; half tender; flavor mild and pleasant. Tree a remarkably vigorous, erect and beautiful grower, and an immense bearer. Ripe last of June and beginning of July. One of the most popular varieties in all parts of the country.

Governor Wood—Yellow; **Florence**, Red; **English Morello**, Red, tart, and other leading varieties. 50c. each.

APPLES

Baldwin—Large, roundish; deep bright red; very productive; handsome fruit. One of the most popular varieties in Northern States.

Ben Davis—Large, handsome, striped, productive; a late keeper. A profitable market sort.

Grimes' Golden, (**Grimes' Golden Pippin**)—Of the highest

Malden's Blush—Rather large and smooth, evenly shaded red or blush on a clear, pale yellow ground; with a pleasant sub-acid flavor.

Red Astrachan—Large, roundish, deep crimson, overspread with a thick bloom; juicy, rich, acid, very productive.

Rhode Island Greening—Large, greenish-yellow; tender, juicy and rich, with rather an acid flavor; an abundant bearer.

Smokehouse—A popular old variety in Pennsylvania, where it originated. Roundish oblate; yellow, shaded and striped with bright red; flesh yellowish. A rather crooked grower, but productive.

Northern Spy—Large, roundish, slightly conical. Flesh white and tender, with a rich and delicious flavor. The tree should be kept open by pruning, so as to admit air and light freely.

Wine Sap—Medium size, dark red; of rich flavor, very productive; late.

Any of the above in 6 to 8 ft. trees. 50c. each; \$5.00 doz. We can also supply all other varieties, also Crab Apples.

PEARS

Bartlett—Large size, with a beautiful blush; buttery, very juicy; bears early and abundantly.

Flemish Beauty—Large, beautiful, juicy, melting; good bearer; one of the hardest and does well nearly everywhere.

Howell—Large, light, waxen yellow, with a fine, red cheek; handsome, rich, aromatic flavor. An early and profuse bearer.

Keiffer—While not of the best quality, properly ripened it is a fair dessert fruit, and one of the very best for canning and preserving.

Lawrence—A good grower; very productive. Fruit medium, canary-yellow, sweet and excellent; a good keeper.

Le Conte—Very vigorous grower, with luxuriant foliage; fruit very large, greenish-yellow, smooth and handsome; juicy. Early.

Rossney—A large variety of rare merit; flesh fine grained and of superior flavor; skin a beautiful creamy yellow, with crimson blush, giving it a tempting appearance; ripening in September.

Worden-Seckel—A seedling of the Seckel. Equal in quality to its famous parent, which it much resembles in flavor, is

qually as luscious, more juicy, while in size, color, form and appearance it is decidedly superior; hardy and an enormous earer; fruit keeps well.

Extra strong Trees, 5 to 7 feet high, 50c. each; doz., \$5.00. We can also supply all other variety.

PEACHES

Trees such as we furnish will often bear the year after they have been set out.

Crawford's Early—The best yellow peach for market fruit; large, oblong; skin yellow, with fine red cheek; flesh yellow, juicy; wonderfully productive.

Crawford's Late—Fruit of the largest size; skin greenish-yellow, with dull red cheek; flesh yellow; one of the finest late sorts.

Elberta—Large, yellow, with red cheek; flesh yellow; firm, juicy, of high quality. Exceedingly prolific, sure bearer and hardy. Is doing well in all peach sections north and south. One of the leading market varieties. Follows Early Crawford.

Mountain Rose—The largest early peach. White, with red cheek; rich and very good; productive and reliable. Freestone.

Oldmixon Free—Uniformly large; white, covered with bright red; one of the best.

Stump the World—Very large; skin white, with bright cheek; flesh white, juicy and good.

Extra strong Trees, 5 to 6 feet high, 40c. each; per doz., \$4.00. We can also supply all other varieties.

PLUMS

Abundance—The fruit is very large, showy, and beautiful. Amber, turning to a rich, bright cherry color. Ripens early in August.

Burbank—Medium to rather large, conical in form; orange-yellow, overlaid with red; flesh firm, meaty, yellow; from two or four weeks later than Abundance.

Hale—The plums are of the largest size, bright orange-yellow skin, mottled and nearly covered with vivid cherry-red.

Red June (Japan)—Vigorous and early; fruit medium to large, deep vermilion-red; very showy; flesh light lemon-yellow.

Sultan—Very large in size, deep purplish-crimson in color; flesh very firm, dark crimson shaded with pink.

Wickson—Fruit large, obconical, dark crimson-purple; flesh very firm, highly flavored; pit small. An excellent keeper. Ripens after Burbank.

Wild Goose—Large, rich, crimson; very productive and profitable.

Extra strong Trees, 5 to 6 feet high, 50c. each; \$5.00 doz.

Quinces, Apricots and other fruit trees, as well as nut trees, can be furnished promptly at reasonable prices for Reliable stock. Write for prices.

CURRENTS

(Extra Strong Plants)

Currents like good rich soil. They are particularly susceptible to scale, and steps should be taken to keep them free from this by liberal spraying, when the bushes are dormant.

Black Naples—Fruit varies from small to large, averaging above medium; strong flavor. An old and well-known variety.

Cherry—Bush vigorous, stocky and compact; cluster rather short, with short stems; fruit averages large; color fine, bright red. One of the most productive of the large currents.

Fay's Prolific—Not quite so strong a grower as Cherry; cluster medium to long, with rather long stems; color darker than Cherry.

White Grape—Clusters long; berries very large; of very attractive color, mild flavor and good quality.

All the above 15c. each; \$1.25 doz.

GOOSEBERRIES

Gooseberries should be cultivated during the growing season and fertilized with manure in the early Spring or late Fall. They will repay you for this trouble with an extra big crop.

Dowling—Fruit medium to large, whitish green; flesh soft, juicy. Each 20c.; \$2.00 doz.

Houghton—Bush a vigorous grower, with rather slender branches; very productive. Fruit medium size, pale, red, tender and good. 20c. each; \$2.00 doz.

Blackberries—Popular varieties. 15c. each; \$1.25 doz.

RASPBERRIES (Extra Strong Plants)

Raspberries should be carefully staked, to get large crops. We recommend that well-rotted manure or other suitable fertilizer be dug around the bushes, either in the Fall or early Spring.

Brilliant—Ripens its fruit early and fast, producing bright, glossy, brilliant red berries, handsome. 15c. each; \$1.25 doz.

Cuthbert—Berries very large, measuring 3 inches around; conical; rich crimson. 15c. each; \$1.25 doz.

Columbian—Fruit very large, often an inch in diameter; color dark red, bordering on purple. 15c. each; \$1.25 doz.

St. Regis—Everbearing Raspberries. They yield their first crop of berries in June (the regular season), and yields an equally heavy crop the latter part of August, and continues bearing right up to November. 20c. each; \$1.50 doz.

GRAPE VINES (Strong Two-Year-Old Stock)

Concord—The well-known standard purple variety, succeeds wherever grapes will grow.

Delaware—Bunches and berries rather small; light red; juicy.

Catawba—Delicious flavor, medium size red berry.

Niagara—An unusually strong grower; bunches very large and compact, berries large, light greenish-white, semi-transparent, has very little pulp and is sweet to the centre.

STRAWBERRY PLANTS

(Extra Strong Layers)

Ready from April 1st to May 15th, and from October 1st to November 15th.

Early Varieties—Abington, Chipman, Senator, Dunlap, Success.

Mid-Season Varieties—Auto, Bubach, Cardinal, Heritage, Nick Ohmer, President, William Belt, Marshall.

Late Season Varieties—Brandwine, Gandy, Glen Mary, Norwood, New Home Superior, Sample, Sharpless, Steven's Late Champion, Haverland.

Price of any of the above 25c. doz.; 100, \$1.25; 1,000, \$7.50.

Pot-Grown Strawberry Plants—Ready about August 1st. Of late this kind of plant has become very popular, and is almost exclusively employed for garden planting. The failures are few, and much care and labor are avoided. We grow the plants in pots, and when they are well established and ready to ship, turn them out of the pots, preserving the balls of earth around the roots and wrapping them in paper. In this way, during the hottest weather in July, August and September, plants can be transplanted safely and satisfactorily. Plants set out in August and September will yield a crop next season. We can furnish Sharpless, Late Orem, Medium, Nick Ohmer, Early and other popular varieties. 50c. doz.; 100, \$3.50.



SHADE TREES

Norway Maples—8-10 ft., \$1.25; 10-12 ft., \$1.50.

Silver Maples—10-12 ft., \$1.00.

Catalpa Bungei—grafted—6-8 ft., \$2.00.

Poplar, Carolina—10-12 ft., \$1.00.

Poplar, Lombardy—8-10 ft., 75c.

Teas Weeping Mulberries—5-6 ft., \$2.00.

Weeping Willows—5-6 ft., 75c.

Betula Alba, or White Birch—8-10 ft., \$1.00.

American Lindens—8-10 ft., \$1.00.

Japanese Maple—Blood Leaf—2-3 ft., \$2.25.

Cornus Rubra, or Red Dogwood—2-3 ft., \$1.50.

Cornus Florida, or White Dogwood—3-4 ft., \$1.50.

Oriental Plane—10-12 ft., \$1.00.

American Elm—10-12 ft., \$1.00.

Tulip Tree—8-10 ft., \$1.00.

Sycamore—10-12 ft., \$1.00.

Write for prices on larger quantities.



Sent via Express Only.



Fay's Prolific Currants

Fertilizers and Plant Foods for the Farm, Garden, Lawn and House Plants

Fertilizers—If to be sent by Parcel Post, please include sufficient for postage according to weight and zone.

Ober's Pure Raw Bone Meal—(Guaranteed analysis—Phosphoric acid 21%, equivalent to bone phosphate of lime 43%, ammonia 4½%) Does not burn. For flowers, trees and top dressing. 1 lb., 5c.; 25 lbs., \$1.15; 100 lbs., \$3.00; 200 lbs., \$5.75; ton, \$47.50.

Ober's Pure Bone Meal—(Guaranteed analysis—Phosphoric acid 22%, equivalent to bone phosphate of lime 50%, ammonia 3%) Splendid article for building up worn out soil, lawns, etc. 1 lb., 5c.; 25 lbs., \$1.00; 100 lbs., \$2.75; 200 lbs., \$5.00; ton, \$42.50.

Ober's Lord Baltimore Lawn Mixture—Highly recommended for lawns and other grasses. 165-lb. bag, \$3.50; ton, \$35.00.

Ober's Star Vegetable Compound—5-8-1. Lands suitable for trucking are the highest priced lands in America, and profits must necessarily be large. Successful market gardeners realize that the liberal use of commercial fertilizers mean: First, strong and healthy plants; for plants, like persons, are, when poorly nourished, very subject to disease. Second, early and large crops, which result in more profit per acre. Third, sweet and tender fruit, the result of rapid growth and quick maturity. For foliage crops, such as cabbage, lettuce, spinach, etc., ammonia is needed; for woody plants and for fiber, phosphoric acid; for fruit, sugar and starch productions, potash. Star Vegetable Compound meets all these conditions and is excellent for general use in market gardening. Ton, \$42.50; 165-lb. sack, \$4.00; 100 lbs., \$3.00; 50 lbs., \$2.00; 25 lbs., \$1.10; 1 lb., 5c.

Ober's Nitro Potash Compound—2-9-1. To be highly recommended for potatoes and vegetables. 165-lb. bag, \$3.00; ton, \$30.00.

Ober's Independent—1-8-1. A good all-round fertilizer. 165-lb. bag, \$2.75; ton, \$24.00.

Ober's Red King Guano—3-8-1. A great favorite for general truckers. 165-lb. bag, \$3.00; ton, \$32.50.

Ober's Electro Compound—1-10-0. A general crop producer. 165-lb. bag, \$2.25; ton, \$21.00.

Acid Phosphate, or South Carolina Rock—16 per cent. Bag, \$2.25; ton, \$19.00; 14 per cent, \$18.00 per ton.

M. & S. PREPARED FIBRE COCOANUT SOIL

Grow Your House Bulbs Without Soil, Drainage or Saucers.
The Best and Most Charming Way of Producing Spring Flowers for House and Table Decorations

Highly recommended and valuable for wornout soils. Should be worked in with soil. For lawns, trees, hedges and shrubbery. Also for house plants of all descriptions. It does not create or retain bugs or flies, and is clean and odorless. For mushrooms it is the missing link, a cover for the beds; holds just enough moisture; mix three-fourths "M. & S." Prepared Fibre Coconut Soil with one-fourth loam and your plants will be the right color and of uniform size. Qt., wt., 1 lb., 10c.; 4 qts., wt., 5 lbs., 20c.; pk., wt., 9 lb., 35c.; bu., wt., 35 lbs., \$1.00; 100-lb. bags, \$1.75.

NATURAL PLANT FOOD ALPHANO HUMUS

The best for flowers, shrubbery, vegetables, lawns and Alfalfa clover inoculation, being the best Humus obtainable and containing the necessary **Plant Food**: Ammonia, Phosphates, Lime and Potash, in a soluble form. Being odorless and entirely sanitary it can be used indoors around potted plants. We can recommend a liberal use for bulbs of all kinds for fall planting, and it should be dug in well around all shrubbery in the Fall to give good results next Spring. Price, \$1.50 per bag of 100 lbs.; in 5-bag lots, \$1.25 per bag; in ton lots, \$1.00 per bag; 3c. per lb. in small quantities.

Sheep Manure—Apply 1,000 lbs. per acre. For garden, lawn or greenhouse use, nothing surpasses sheep manure; it is clean and easily handled, besides giving immediate results. 1 lb., 5c.; 25c. per 6 lbs.; 10 lbs., 40c.; 75c. per 25 lbs.; 50 lbs., \$1.25; \$2.00 per 100 lbs.

Poudrette (Native Guano)—Apply 1000 lbs. per acre. Extensively used for garden, lawns, in making compost and in fact wherever a good, quick acting fertilizer is wanted. It is odorless and easily handled, besides giving immediate results. Poudrette is absolutely harmless to human being. Applied as fertilizer to any garden crop. 5 lbs., 20c.; 35c. per 10 lbs.; 25 lb., 60c.; \$1.00 per 50 lbs.; 100 lbs., \$1.50; \$2.75 per 200 lbs.; 600 lbs., \$6.00; \$9.50 per 1,000 lbs.; per ton, \$18.00.

Lime (Hydrated or Powdered)—This is a very fine article for distributing on grass. It promotes growth; gives the grasses rich color, and has a tendency to prevent the growth of weeds; sweetens sour soil. Apply one ton per acre of fields or ½ ton on lawns. 25c. per peck; 120-lb. sack, \$1.00; 200 lbs., \$1.50; ton, \$10.00. Special price in carload lots and f. o. b. factory.

Nitrate of Soda—Apply 100 to 150 lbs. per acre, mixing with land plaster or other fertilizer to render application more easy. Use only after plants are above ground. If used in liquid form dilute two ounces to one gallon of water and do not apply oftener than twice a week. 10c. lb. Write or inquire for prices in larger quantities.

Land Plaster—Apply about 1,000 to 1,500 lbs. per acre. For a top dressing on sour and wornout soils, also for mixing with

Paris Green. 5 lbs., 15c.; 35c. per 25 lbs.; 50 lbs., 60c.; 90c. per 100 lbs.; 200 lbs., \$1.25.

Blood (Dried)—For indoor culture of flowering plants, like roses, carnations, etc., its chief element being nitrogen. 10c. per lb., 3 lbs., 25c.; 25 lbs., \$1.50; \$2.25 per 50 lbs.; 100 lbs., \$3.50; \$6.75 per 200 lbs.

Salt—For agricultural purposes, asparagus beds and putting on walks and roads to kill weeds. Apply 600 to 800 lbs. per acre; in early Spring. 10 lbs., 20c.; 30c. per 25 lbs.; 50 lbs., 55c.; \$1.00 per 100 lbs.

Tobacco Stems—For fumigating, mulching and fertilizing these are invaluable. The chief fertilizing element in them is the potash. They make an excellent top dressing for lawns in Winter. 1 lb., 5c.; 20c. per 5 lbs.; 50 lbs., \$1.00; 100 lbs., \$1.75.

They contain those ingredients in their proper proportions that are necessary for healthy plant life. Their use promotes a luxuriant, vigorous growth of branch leaf and flower. Thousands of plant lovers who do not keep plants would do so if they knew how beautiful and luxuriantly they could make them bloom by feeding them Sterlingworth Plant Tablets. Prices: Large size, 25c., postpaid; trial size, 10c., postpaid.

"Fluerette"—A liquid plant food. Makes strong and rapid growth, gives luxuriant foliage, enlarges and nourishes the bloom. Carefully prepared so as not to injure the tenderest shoot peeping through the soil or the most delicate fronds of the fern. Destroys all germs that breed insects in the soil and feeds the plant at the same time. To be diluted with water and it is ready for use. ½ pint, 15c.; pt., 25c.; qt., 40c.; ½ gal., 75c.; gal., \$1.25. Sent by express only.

Evergreen Brand Fertilizer—Feed your flowers and plants on the most reliable and profitable plant food. Especially recommended and used by the leading private gardeners of England and America. Very highly concentrated. Can be used in liquid and in dry form. 15c. lb.; 12-lb. cans, \$1.25; 50-lb. drums, \$4.50.



STERLINGWORTH FISH OIL SOAP

The killing values of this soap is increased by the addition of tobacco extractive matter; it possesses the valuable features of Whale Oil or Fish Oil Soap with the additional insecticide values of tobacco and may be used for all insect killing purposes for which Whale Oil or Fish Oil Soap may be used with doubly satisfactory results. 1 lb., 25c.; 5 lbs., 75c.

M. & S. INSECT DESTROYING PREPARATIONS

Nico-Fume Liquid—A refined solution of free nicotine. Used as a spray or fumigator. Death to all kinds of insects that infect plant life. One ounce bottle 25c., enough for any ordinary size garden for a whole season. ¼ lb. can, 50c.; 1 lb. can, \$1.50; 4-lb. can, \$5.50; by express only.

"Nico-Fume"—A tobacco paper insecticide for fumigating greenhouses. Extensively used by prominent florists. Very easy to apply. 24 sheets, 85c.; 144 sheets, \$4.00.

Parcel Post weight, 1 and 4 lbs. respectively.

Black Leaf 40—A concentrated solution of Nicotine Sulphate, an excellent spray for black aphid sucking insects of all kinds; dilute 1 part to 900 or 1,000 parts of water, according to treatment. ½ lb. makes 47 gallons solution. Full directions on each package. 1 oz., 25c.; ½ lb., 75c.; \$2.50 per 2 lbs.; 10 lbs., \$10.75; by express only.

Hammond Thrip Juice No. 2—Effective against Alphis, Red Spider, Meal Bugs, Soft Scale, and sucking insects generally. This is a contact insecticide, concentrated. Especially adapted for use on plants and vegetables grown under glass. Non-poisonous. Dilute for use: one part Thrip Juice with forty parts water. Always use soft water or boiled water. Price, 40c. per ½ pt.; 75c. pt.

Lemon Oil "Standard" Insecticide—As a dip or a spray effective and harmless to delicate plants. Destroys thrip scale, red spider fly, caterpillar, a American blight, etc. Dilute with 50 parts of water. Odorless, poisonless, the best flea killer, wash and mange remedy for dogs and cats. ½ pt., 25c.; qt., 40c.; gal., \$1.25; gal., \$2.00. Sent by express or freight only.



Sulpho-Tobacco Soap—A sure and safe exterminator of all kinds of insects and vermin. A powerful Fertilizer. Pkg., 10c. and 20c.

Tobacco Dust—Lb., 5c. Special price on quantity.

Flowers of Sulphur—Effective for mildew. Lb., 10c.; 5 lbs., 40c.

In ordering Insecticide, etc., by Parcel Post, always include the right amount of postage. Look at Parcel Post table in back of book.

"Thanatus"—An insecticide to destroy mealy bugs, snail, green fly, red and black spider, black flea, scale and all insects that infest plant life. It is perfectly harmless to the bloom, bud or plant, and contains no poison or acid; in fact, a flower could be soaked in this solution for several minutes without doing any damage whatsoever. No solution now on the market is as harmless and so effective. "Thanatus" is very adaptable for all indoor plants, and always ready for use by diluting with water. Directions on label. $\frac{1}{2}$ pt., 25c.; pt., 40c.; qt., 75c.; $\frac{1}{2}$ gal., \$1.00; gal., \$1.75; 5 gal., \$5.00.

Hammond's Slug Shot—A non-poisonous powder; it requires no further mixing or preparation; easily applied, and not injurious or dangerous to animals or the person applying it on fruits and vegetables treated; destroys potato bugs and beetles, green and black fly, slugs, worms, caterpillars, etc. Ten to forty pounds is enough for an acre. 1 lb. carton, 15c.; 5-lb. pkg., 35c.



"Bug Death"—Kills potato, squash and cucumber bugs, currant and tomato worms, and all bugs and worms that chew the leaves of plants; non-poisonous. Lb., 20c.; 3 lbs., 45c.; 5 lbs., 60c.; 12 $\frac{1}{2}$ lbs., \$1.25; 100 lbs., \$5.00.

Dickey Duster—Used for applying "Bug Death," 25c. Parcel Post weight 2 lbs.

Paris Green— $\frac{1}{4}$ lb., 20c.; $\frac{1}{2}$ lb., 35c.; 1 lb., 60c. Price subject to change.

Bordeaux Mixture in dry form. 1 lb., 35c.; 5 lbs., \$1.50.

ORIOLE WEED KILLER

A scientific preparation for destroying grass and weeds in paths, roadways, streets and gutters. To be diluted with water. Qt., 35c.; 1 gal., \$1.00; 5 gals., \$4.00; 10 gals., \$7.50; barrel lots, 65c. per gallon. One gallon makes 40 gallons of solution. By express or freight only.

WEED KILLER

Is a non-poisonous dry powder for sowing on the lawn and adheres to the broad flat leaves of such weeds as milk weed, witch grass, wild morning glory, dandelions, poison ivy, sumach, etc. It does not stick to the grass because of its upright position and smooth surface. The ingredients in combination with the sun's rays burn out the weeds. The compound has an invigorating effect on the grass, which, stimulated by it, springs up rapidly and gets ahead of the weeds that have been stunted and killed by the compound and quickly chokes them out. The use of Sterlingworth Lawn Compound helps give to the grass a beautiful rich bottle-green velvety color so much admired by lovers of good lawns. Two applications will clean out the most heavily weeded lawn. In many instances one application will do it. Do not dig out weeds; it leaves bare spots and holes. Sterlingworth Lawn Compound is easily applied by sprinkling over the weedy lawn. One pound will dress 100 or 200 square feet, depending on the lawn's condition. 5 lbs., \$1.00; mailing weight, 6 lbs.

STERLINGWORTH
LAWN COMPOUND



"PYROX"



Pyrox—Kills all leaf-eating insects, destroys fungus growth, blight and rot. Mixes easily in cold water, sprays without clogging and sticks to foliage, vegetables, fruits and shrubs. Every truckgrower wants "Pyrox" for his potatoes, tomatoes, cucumbers, egg plants, peppers, melons. It kills insects and prevents plant diseases. One solution serves both purposes. Many growers have told us they could never get a crop until they had used Pyrox. For potatoes, Pyrox combines the most powerful poison to kill potato bugs and the best fungicide to prevent fungous diseases, such as blight, rust and rot. Bowker's Pyrox kills the codling moth worm, canker worm, tent caterpillar, and similar pests, and at the same time prevents damage by apple scab, rots and other fungi. Coat your seed-corn with Pyrox, and prevent crows from pulling it up and worms from damaging it. A little Pyrox goes a great way in this direction. A pound will coat a paifull. Lb., 25c.; 5 lbs., \$1.00; 10 lbs., \$1.85; 25 lbs., \$4.50; 50 lbs., \$8.00; 100 lbs., \$15.00.

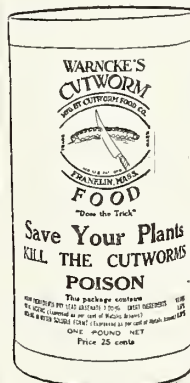
White Hellebore—For rose slugs, currant worms, etc. $\frac{1}{2}$ lb., 30c.; lb., 50c.

Grape Dust—A powder preparation used for mildew, aphids, black fly, and other insects and fungous diseases, principally in greenhouses. Per 5 lbs., 40c.; 75c. per 10 lbs.; per 25 lbs., \$1.75; \$6.00 per 100 lbs.

Scott's Fir Tree Oil Soap—A non-poisonous insecticide for use on trees and plants of all kinds. Used on animals, it will cure mange and all skin diseases, and it is most effective for destroying fleas and other insects. One ounce makes one gallon. $\frac{1}{2}$ -lb. can, 25c.; 2-lb. can, 75c.



WARNICK'S CUTWORM FOOD



Simply put the Food on the ground around the plant in the afternoon, when the ground is not wet; and one night, or possibly two, will practically rid the field of the worms there. If it rains within 40 hours after putting on the Food a second dose should be applied, so that the effective part of the Food may not be washed out until the worm can get at it. Very rarely in the North, but more frequently in the South, a second crop of worms appear, and a later application of the Food is necessary to overcome them.

One pound will protect 75 to 100 plants, which makes the expense either of cash or time very small; almost nothing compared with the value certainly saved. 1-lb., pkg., 25c.

ACRE AN HOUR SIFTER

For dusting vegetables, potatoes, small fruit and shrubbery with Paris Green, Slugshot, Bug Death, Hellebore, etc. 50c. each. Parcel Post weight 2 lbs.

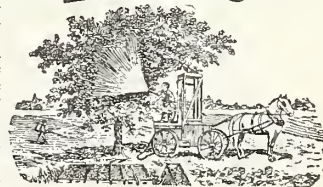
In ordering goods to be sent by parcel post always include enough cash for the postage.

Electro Arsenate of Lead in Dry Powder Form—Is the only successful dry arsenate of lead because it is the only one in a morpous (non-crystalline) form. Electro Arsenate of Lead is in a form that will stick the longest. This is not true where the product is granular or crystalline. This is one reason why Electro Arsenate of Lead should always be used. Heavy rains will not readily wash it off, and it will be effective for months after application. It mixes instantly with water. $\frac{1}{2}$ -lb. cartons, 25c.; 1-lb. cartons, 40c.; 6-lb. kits, \$1.80. Special prices in quantity.

Electro Arsenate of Lead Paste—Is supplied where a paste form is desired. The material is guaranteed to contain 20% arsenic oxide on a basis of 40% water. Most paste forms of INSECTICIDES—Continued on next page



"ELECTRO"



SPRAY CHEMICALS

Dr. J. C. Butler, Mt. Washington, Md., tells us that he has had most wonderful results from our Flower and Vegetable seeds.

ELECTRO SPRAY CHEMICALS—Continued

arsenate of lead contain but 12½ to 15% arsenic oxide and 50% of water. This material has all the chemical qualities of the Powder and is in the same physical condition, except that it is packed in paste form. 1-lb. jars 30c.; 2-lb. jars, 50c.; 12½-lb. kits, \$2.25. Special price in quantity. Express or freight only.

Thomsen Chemical Co. Arsenate of Lead—

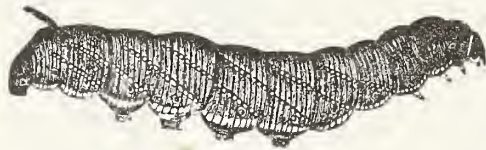
Paste Form		Powdered Form	
1-lb. pkg.	.25	1-lb. pkg.	.40
2-lb. pkg.	.40	2-lb. pkg.	.45
5-lb. pkg.	.90	5-lb. pkg.	1.75
10-lb. pkg.	1.60	10-lb. pkg.	3.25

Electro Bordo-Pulp, or Bordeaux Mixture—Is a scientific compound of copper sulphate (blue vitrol) and high-grade lime for use as a fungicide only. It is not poisonous to insects.

This is Bordeaux Mixture (one of the oldest fungicides known) in a concentrated form. It has long been found satisfactory for the control of fungous diseases.

Because of the fact that we can carefully watch the crude materials as well as the process of manufacture, we can turn out a concentrated Bordeaux better than the grower at home who must utilize crude methods. 1-lb. jars, 40c. Prices on larger quantities furnished on application. Express or freight only.

Thomsen Chemical Co. Bordeaux Mixture—1 lb., 30c.; 2 lbs., 50c.; 5 lbs., \$1.15; 10 lbs., \$2.00.

**Tomato Horn Worm**

pounds of this in 50 gallons of water will be equivalent in arsenate of lead to approximately 5 lbs. of our 20% Arsenate of Lead Paste, and in Bordeaux to the 4-4-50 formula.

The remarks on Electro Bordo-Pulp are also true of the Bordo part of this mixture. Consequently, you will see that this is a very desirable spray material to use, giving a combined fungicide and insecticide ready for use, requiring only thinning down and addition to water. This mixture is especially adapted for a combined spray on potatoes, tomatoes, etc. 1-lb. jars, 40c. Special price in quantity. Express or freight only.

Thomsen Chemical Co. Bordeaux Lead—1 lb., 30c.; 2 lbs., 50c.; 5 lbs., \$1.10; 10 lbs., \$2.00.

Atomic Sulphur—This is pure sulphur treated by a special process to convert it into a very finely divided state in the form of paste, so it can be readily diluted with water and applied as a spray to coat fruit and foliage with a thin film of sulphur to prevent germination of fungous spores.

It is recommended for the control of scab on peaches, brown rot on peaches, plums and cherries and cedar rust on apples. Directions: 5 to 7 lb. to 50 gallons of water. 1 lb., 25c.; 2 lb., 45c.; 5 lb., \$1.00; 10 lb., \$1.75.

Bordeaux Arsenite of Zinc (Paste)—This is a combination of Bordeaux Mixture and Arsenite of Zinc. This combination makes a quick-acting poison for spraying where an insecticide is needed in combination with a fungicide. It is especially recommended for potato and tomato spraying. It is quick in action, very adhesive and will not burn the plant. Directions: 6 to 8 pounds to 50 gallons of water. 1 lb., 30c.; 2 lb., 50c.; 5 lb., \$1.10; 10 lb., \$2.00.

Electro Kerosene Emulsion—This is for spraying plant lice, aphids, leaf hoppers, etc. It is readily soluble in water, and should be diluted for the various insects and fruit trees per directions on the label. 1-qt. cans, 40c.; 1-gal. cans, \$1.00; 5-gal. cans, \$3.75. Special price in quantity. Express or freight only.

Electro Insecticide Soap—Superior substitute for whale oil soap. Oil soap is especially valuable as a spray for lice and soft-bodied larvae. By our process we obtain an oil soap which does not contain free alkali. This is a very important item, as the presence of free alkali means severe injury to foliage and fruit. Unlike most so-called whale oil soaps on the market, this is not a by-product with us, but is especially prepared for the purpose for which it is required, and consequently much greater care is used in its manufacture. 1-lb. cans, 25c.; 5-lb. cans, 90c.; 10-lb., kits, \$1.25. Special price in quantity.

In ordering insecticide, etc., to be sent by Parcel Post always include the right amount of postage. Look at Parcel Post table in back of book.

VREELAND'S MICRO

For Dusting Potatoes, Corn, Tomatoes, Etc.

**Cabbage Worm**

combining with it such fungicidal properties that an extra fungicide spray is not necessary in many instances. 1-lb. cartons, 40c.; 6-lb. kits, \$1.50; 12½-lb. kits, \$2.25. Special prices in quantity.

Arsenite of Zinc (Powder)—This is a combination of arsenic with zinc to form a quick acting, adhesive insecticide for use on potatoes and some other truck crops. It is much more adhesive and less caustic than Paris Green and kills quicker than Arsenate of Lead thus possessing the desirable and eliminating the undesirable properties of both Paris Green and

Arsenate of Lead. It should be used at the rate of 4 lbs. paste or 2 lbs. of the powder to each acre treated. Paste Form 1 lb., 25c.; 2 lb., 45c.; 5 lb., \$1.00; 10 lb., \$1.75. Powder Form 1 lb., 40c.; 2 lb., 75c.; 5 lb., \$1.50; 10 lb., \$2.75.

"Electro" Tree Wound Paint—Is used for painting the wound on trees after pruning or where canker has been cut out. makes a perfectly smooth surface, impervious to water, and it is a splendid disinfectant. One application is all that necessary. 1-qt. cans, 50c.; 1-gal. cans, \$1.50; 5-gal. cans, \$6.25. Special price in quantity.

TREE TANGLEFOOT

(Caterpillar Preventive)

No Caterpillar and Creeping Insect Escapes its Sticky, Dead Grip.

The destroying army is coming. Don't wait until you see the vanguard. Band your trees with Tree Tanglefoot two weeks before the Gypsy, Brown-tail and Tussock Moth Caterpillar and Canker Worms, Climbing Cut Worms and Bag Worm begin their ravaging work. Easily and quickly applied. 1 lb. 35c. Mailing weight 2 lbs.

STICKY TREE CORD

A soft cord about ¾ of an inch in diameter, thoroughly saturated and coated with a black sticky material similar in character to that used on sticky fly paper.

Each tube contains approximately 30 feet of cord, sufficient to band about 10 trees one foot in diameter once around, or 10 trees six inches in diameter twice around. It is cheaper than fly paper and cheaper than sticky tree material. Price, 25c. A small clamp to catch hold of the cord is supplied free. Parcel Post weight 2 pounds.

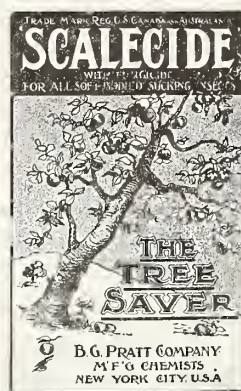
**B. T. S.**

A Lime Sulphur Solution in powder form.

Directions: For dormant spraying to control scale, etc., use 12 pounds to 50 gallons of water. For growing period spraying on apples to control scab, etc., use 1½ to 2 pounds to 50 gallons of water. 1 lb., 25c.; 5 lb., 80c.; 10 lb., \$1.50; 25 lb., \$3.00.

LIME SULPHUR SOLUTION

For destroying San Jose Scale. This is a concentrated form which is diluted 1 gal. to 9 or 10 gals. water, stir thoroughly. May be used as a summer or winter spray, excellent to use as a fungicide. Qt., 35c.; gal., \$1.00; 5 gals., \$2.25; 10 gals., \$3.50; 25 gals., \$4.50; 50 gals., bbl., \$7.50. Express or freight only.

"SCALECIDE"—THE TREE SAVER

Spray every bush, shrub, vine and tree in your yard in the spring, before they leaf out, with "SCALECIDE" diluted 1 part to 15 parts of water. It will clean them of scale, eggs and larvae of insects, and the spores of fungi, that you can reach while the trees are dormant, allowing them to leaf out in the Spring freed from all these parasites, and giving them a healthy start.

"SCALECIDE" is not disagreeable to handle; does not corrode or stop up your pumps; does not injure the most delicate skin (it can even be placed in the eyes without the slightest inconvenience or injury), and does not stain woodwork. It is no a Summer spray, but the Winter application has an invigorating effect on plant or tree growth.

One gallon of "SCALECIDE" will spray as many trees as 3½ gallons of Lime-Sulphur Solution. Dilute for

all dormant spray work 1 part to 15 parts of water. 1 qt., 40c.; 1 gal., \$1.00; 5 gals., \$4.50; 10 gals., \$7.50; 30 gals., ½ bbl., \$17.50; 50 gals., bbl., \$27.50. Freight paid on the last four sizes; qts. and gal. by express only.

"SULFOCIDE"

This is a soluble sulphur compound, and when used as a paint will protect young trees from the attacks of rabbits and mice, and also from apple and peach borers. It is the best remedy known that is non-injurious. When dry, it is almost insoluble in hot or cold water. One or two applications last a year. Use 1 part water to 1 part Sulfoicide, or straight.

"SULFOCIDE" as a fungicide is invaluable in the garden for controlling most fungous diseases affecting vegetables when a poison is not needed. One gallon makes 200 to 300 gallons of spray.

Especially valuable for rust, mildew and red spiders on roses, hollyhocks, etc. 1 pt., 50c.; 1 qt., 75c.; 1 gal., \$2.00.



M. & S. RELIABLE SPRAYING APPARATUS

THE PARAGON SPRAYER

Especially desirable for the reason that it is not necessary to strain the material before pouring it into the reservoir; although we recommend that this be done; will give absolute satisfaction. Excellent for applying whitewash or cold water aint.

No. 0. Like No. 3, but smaller, has no truck. Equipped with 3-gal. reservoir. 4-ft. of hose, nozzle and extension pipes, 9.50.

No. 1. Like No. 0, but larger. With a 5-gal. reservoir, 5-ft. of hose and 2 extension pipes. \$12.00.

No. 3. Equipped with a 12-gal. tank mounted on a truck, three 2½-ft. extension pipes, 2 nozzles and 10 feet of hose; like illustration. \$18.00; without truck, \$15.50.

No. 4. Mounted on a two-wheel truck; equipped with 10 ft. of extension pipe, 20 ft. of hose, and 2 nozzles. Capacity 23 gals. Complete, \$25.00, or with barrel, but no truck, \$20.00. Extension Pipes, Etc.,—For reaching into trees, all ¾ in. threads.

Bamboo, with brass tube, 8 ft., \$2.50.

Bamboo, with brass tube, 10 ft., \$3.00.

Brass, for Auto Sprays, 2 ft., 45c.

Stop Cock, for extension pipes, 50c.

No. 5. Capacity 50 gals.; equipped with 25 feet of 6-ply hose, 10 feet spray pipe, one 3 way spray nozzle, one single spray nozzle. This sprayer has solid cast brass pump and large air chamber. It is positively the very best hand-power sprayer made for tree

praying; has no truck. Price, \$30.00.

Spray Nozzles—One-Point Vermorel—All brass. Furnished with five extra steel discs which may be easily renewed. The tool is heavily galvanized and will not wear as fast as brass. 5c., postpaid.

Spray Hose, ½-in., best made, all rubber, 12c. per foot.

¾-in. clamps for same, 5c. each; 50c. doz.

THE NON-CLOG ATOMIC NOZZLE

Is unequalled for perfect and even distribution of spray, fine mist-like effect, adaptability to various conditions, simplicity, accuracy of construction and lightness of weight. The nozzle is made either of cast bronze or aluminum, as required. It has full threads turned on a turret lathe and not stamped from thin metal with spun threads. The nozzle may be adjusted to throw every graduation of spray, from a fine, wide bell shape to practically a solid stream throwing a distance of 20 feet. The adjustment is simply made. ¼-in. thread. Non-Clog Junior, for small work, 60c.; Non-Clog Regular Aluminum, \$1.00; Non-Clog Regular Brass, \$1.25. All above postpaid.

Bordeaux Nozzle—Throws a fan-shape, mist-like spray. Solid Brass, price, 75c., postpaid.

THE AUTO SPRAY

It operates with compressed air; safe and efficient; liquid capacity four gallons; pressure capacity, forty pounds.

The Auto-Spray must please, and will accomplish all that any first-class sprayer will, or the purchase price will be refunded. They will successfully spray bushes, shrubbery and trees, the latter with the use of extension pipes. The brass tank sprayer is the best, as corrosive solutions can be used in it without injuring the same, and the extra cost over the galvanized will prove a good investment.

No. 1-A Brass—Equipped with hose and regular nozzle. \$8.00. Weight on all four styles, 15 lbs.

No. 1-B Brass—Equipped with hose and Auto-Pop Attachment. \$8.50.

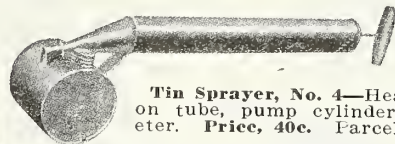
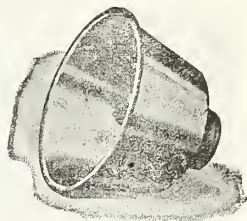
No. 1-C—Galvanized Iron—Equipped with hose and regular nozzle. \$5.00.

No. 1-D—Galvanized Iron—Equipped with hose and Auto-Pop. \$5.50.

Auto-Pop Nozzle Attachment—Controls the flow instantly by a pressure of the hand. When Auto-Pop Attachment is purchased separately, \$1.50 each.

COPPER STRAINER

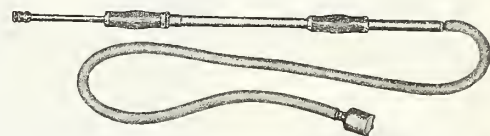
For straining white-wash, spraying material, etc. \$1.00 each. Parcel Post weight, 1 lb.



Tin Sprayer, No. 4—Heavy material, copper syphon tube, pump cylinder extra large, 2-in. diameter. Price, 40c. Parcel Post weight 3 lbs.

AUTO SPRAY NO. 5

This pump is the ideal all-purpose hand-sprayer. Its field is practically unlimited as it may be used for spraying trees, vines, garden truck, potatoes and any field crops, and for handling whitewash and disinfectants. It is made entirely of brass, doing away with all danger of corrosion. The Auto-Spray No. 5 excels all other pumps in durability and simplicity. Because it is double acting it will do the same spraying that other pumps do, with half the labor. Parcel Post weight, 5 lbs. Price, \$4.00.



AUTO SPRAY, No. 25 CONTINUOUS SPRAYER

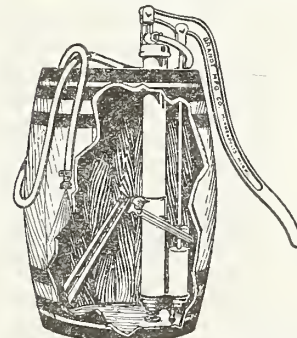
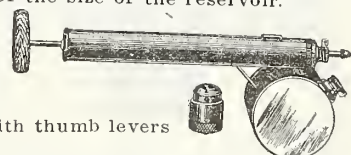
Made in two sizes, one quart and one-half gallon capacity. Will handle all solutions, insecticides and disinfectants. May be used for all plant life, in the greenhouse, kitchen, garden, for rose bushes and in the poultry house. The one-half gallon size is ideal for the florist or for field work where there is not a great area to cover. Both sizes are identical in construction with the exception only of the size of the reservoir.

Two Spray Caps—One straight, the other at an angle for reaching under side of leaves. Will operate at any angle and will not tip over when filling.

Screw Caps Reinforced—With thumb levers—easy to turn.

Auto-Spray, No. 25B	One qt., tin pump, galv. tank.....	\$0.75
Auto-Spray, No. 25C	One qt., tin pump, brass tank.....	1.00
Auto-Spray, No. 25D	½-gallon, tin pump, galv. tank....	1.25
Auto-Spray, No. 25E	½-gallon, tin pump, brass tank....	1.50

(Parcel Post weight of all sizes, 3 lbs.)

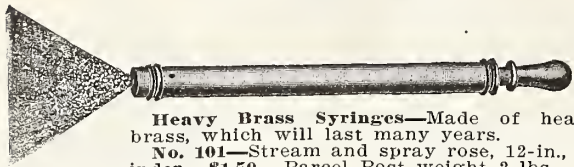


The "King" Barrel Spray Pump—This pump has self-oiling plunger and is constructed so that the packing may be tightened without taking the plunger out of the cylinder. No leather or rubbers used in the pumps; the packing is specially prepared and will withstand the action of spraying chemicals longer than any other material and can be placed in a few minutes at a nominal cost. Dimensions 1¼ in. cylinder, 2 in. air chamber and fastens to chime of barrel. Equipped 12 ft. of hose, 8 ft. extension pipe, nozzle agitator, etc. Price, \$12.50.

"Modoc" Bucket Pump—This pump is all brass except the foot piece and handle. The foot piece holds the pump firmly in the bucket or pail in just the proper position for work. The pump is equipped with 3 feet ½-in. spray hose attached with clamps. Price, \$4.00. Parcel Post weight, 9 lbs.

SPRAY PUMPS—Continued

SPRAY PUMPS—Continued



Heavy Brass Syringes—Made of heavy sheet brass, which will last many years.

No. 101. Stream and spray rose, 12-in., 1-in. cylinder. \$1.50. Parcel Post weight 2 lbs.

No. 102. Stream and spray rose, 16-in., 1-in. cylinder, weight 2 lbs. \$3.00.

No. 103. Stream and spray rose, 16-in., 1½-in. cylinder, weight 3 lbs. \$4.00.

Rubber Plant Sprinklers—They can be used for sprinkling plants, cut flowers, etc., also for damping clothes and carpets, and for disinfecting purposes.

No. 1. 8-oz. straight neck, Fig. 2, angle neck, 90c. Parcel Post weight, 1 lb.

No. 2. 4-oz. straight neck, Fig. 3, 90c.; angle neck, 90c. Parcel Post weight, 1 lb.

Insect Powder Bulb—Small size, 10c.; large size, 25c.; these two postpaid.

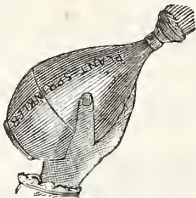


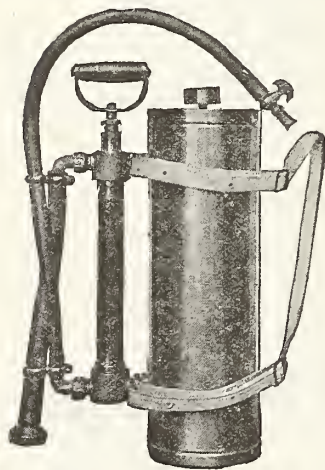
Fig. 2



Fig. 3

THE BIDWELL AIR SPRAYER

The heavy steel tank has a capacity of 5 gallons; the pressure capacity is 45 lbs. Unlike most other sprayers which have to be pumped several times to empty their reservoir, this one will empty the contents with one charge; the pump is independent of the tank and every part can be gotten at. Every piece is brass and copper except the tank hose and washers. The liquid is pumped into the reservoir through the same hose which takes in the air; equipped with a practical air pressure gauge. Fitted with a famous Winkle-Mist nozzle. \$10.00.



LAWN SPRINKLERS

Ring Fountain Sprinkler—All brass. Price, 75c. Parcel Post weight, 1 lb.

Lawn Shower Sprayer—No. 3. Fig. 5. An even gentle spray is thrown over 25 ft. in diameter at a water pressure of 40 lbs.

The nozzle may be connected to hose for washing sidewalks. Used in concrete mixing and general fire protection. It makes an attractive fountain display. Holder and nozzle complete (¾-in. connection), \$2.00. Parcel Post weight, 4 lbs.

"M. & S." Lawn Shower Sprinkler—Fig. 6. A most complete lawn sprinkler, which will throw an even shower spray for a radius of 20 ft. Price, 25c. each. Parcel Post weight, 2 lbs.

No. 955. Three-Arm Sprinkler—Can be operated with moderate pressure, covers wide area, and distributes water evenly. Revolving arms throw water in a fine spray into the air, and the motion produces a fine mist. Height, 1 foot. Nickel plated and nicely finished. \$1.25. Weight 4 lbs.

No. 965. Three-Arm and Shower Sprinkler—Nickel plated; very substantial. \$1.75. Weight 5 lbs.

No. 966. Three-Arm and Shower Sprinkler—Same as above, but 30 inches high. \$2.50. Weight 7 lbs.

Champion Powder Gun—This machine will distribute dry insecticides, covering one or two rows at one time; will save

its price in material used in one season.

This machine keeps the poison at a safe distance from the operator.

Dust potato vines as fast as you walk, two rows at a time. Each machine is furnished with two tubes, five nozzles and strap. Anyone can use it. Weighs, cased for shipping, 17 pounds. Price, \$8.00.

Little Giant Powder Duster—This Duster is somewhat like the Champion Duster, except it is lighter and has a smaller capacity. It is nicely made and very strong. Our special price, \$6.00. Weight 12 lbs.



FLOWER POTS, TUBS, STAKES, ETC.

N. Y. STYLE CEDAR TUBS

The New York style tree tubs are made of seasoned selected Virginia white cedar, and are trimmed with specially designed metal feet, extra-heavy flat steel hoops and liberal-size metal handles. These tubs are painted with the best oil paints—a handsome green on the outside and dark gray inside. Hoops, handles and feet trimmed in jet black.



New York Style

Size	Top Diameter Inches	Bottom Diameter Inches	Depth Finished Inches	Price Each	Weight Each Pounds
No. 1	12	9¾	10½	\$1.00	9
No. 2	13	10¾	12¾	1.25	13
No. 3	14½	12 1/16	14¾	1.65	15
No. 3½	16½	14¾	15¾	2.00	18
No. 4	19 7/16	17¾	16¾	2.65	21
No. 5	22 7/16	20¾	18½	3.45	26

The Richmond style tree tubs are made of seasoned, selected Virginia white cedar, are bound with electric-welded wire hoops, galvanized, three hoops to each. The Richmond style fills a long-felt want for a cheap type of plant tub and is being used by many large florists in the place of earthen pots. These plant tubs are nicely painted with the best oil paints—a handsome green color inside and out. The tops of the staves are slightly beveled, which gives them a neat, trim finish. Has no feet or handles.

Size	Inside Top Diameter Inches	Inside Bottom Diameter Inches	Inside Depth Inches	Price Each	Weight Each Pounds
No. 5	10	7½	9	\$0.40	3
No. 7	12	9	11	.60	4½
No. 9	14	11	13	.90	7
No. 11	16	12½	15	1.10	9

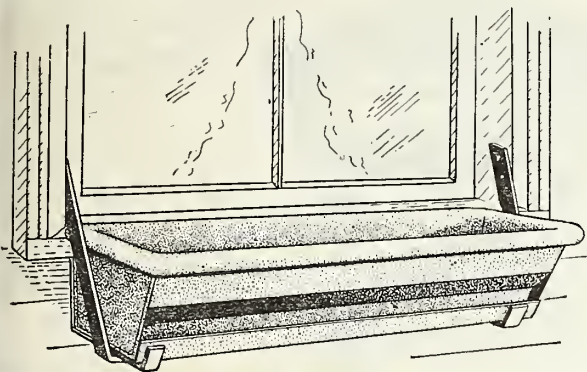
M. & S. SUCCESS SELF-WATERING WINDOW BOXES

The Success Plant Box is made of strong galvanized iron, neatly enameled in dark green. It is so constructed that the watering is easy, the drainage ample, the air circulation perfect.

The Success Box is made with a water pocket on one side at the bottom. This pocket runs the full length of the box. Leading from it, into the box itself, are openings to convey the water to the soil. To prevent these openings from clogging up, a roof-shaped piece of metal extends from the pocket openings to the center of the box, at the bottom.

The pocket is simply filled with water and the soil takes it up. Or, water is poured in the usual way on the top of soil and the pocket takes care of the surplus. The water outlet also forms an air inlet, conveying the air to the center of the soil, where it distributes to every part.

Plants thrive wonderfully in these boxes. For window or porch use they are ideal, as, unless excessively over-watered, there is no drip. No staining of paint or disfiguring in any way.



Window Box Equipped with Extension Bracket for Setting on Sill

The top edges have an attractive rolled finish. They are made in a number of lengths to suit different places and purposes, and may be equipped with brackets for securely fastening them to window sills or hanging below them, also to porch rails.

in	Width	8 1/2 in	Depth	6 1/4 in	Weight	6	Each	\$1.25
in	"	8 1/2 in	"	6 1/4 in	"	7	"	1.50
in	"	8 1/2 in	"	6 1/4 in	"	8	"	2.00
in	"	8 1/2 in	"	6 1/4 in	"	9	"	2.50

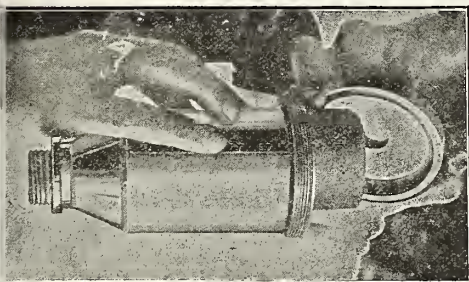
Brackets for Window Boxes

1—For setting on sill.....	\$0.50	per pair	3 lb.
2—For hanging under sill.....	.60	"	3 lb.
3—For the porch rail.....	.25	"	1 lb.

M. & S. SUCCESS SELF-WATERING PLANT TUB OR HANGING POT

This Galvanized Steel Plant Tub is specially adapted for ferns, palms, hydrangea or any large plant. Can be used indoors or outdoors; water can be freely used without danger of damaging floors or woodwork on which box is set. It gives proper drainage and free ventilation at bottom and plants will grow much better than in ordinary pot or tub. Length, 12 inches; width, 12 inches; depth, 8 1/4 inches; price, \$1.50 each. Weight 5 lbs.

THE KIRKE AUTOMATIC LAWN AND GARDEN FEEDER



Inserting the Cartridge

Also Insect and Blight Abolisher

Merely slip a cartridge for either purpose in the container, attach to the hose and water as usual.

This Kirke System of liquefying and applying in mild solution cartridges of concentrated fertilizers, insecticides or fungicides,

through the hose while watering the garden and lawn, is a simple, practical and most efficient method. The Container is a nickel-plated durable brass affair, about 6 inches long by 2 1/2 inches in diameter with strainer in the outlet end; the top unscrews for the insertion of cartridges. It is fitted to couple to any 3/4-inch garden hose, either at the faucet or nozzle end. The cartridges—clean and odorless—have been compounded by an expert agricultural chemist and contain in concentrated slowly soluble form the various ingredients—strictly high grade



Feeding the Flowers and Lawn

and scientifically blended for the purposes designed, so that when the hose is turned on the cartridge gradually dissolves and impregnates the outflowing water with the proper proportion of plant food, insect destroyer or fungus remedy. Any cartridge (excepting the Bordeaux) may be quickly removed and replaced from time to time as required—until worn away. A cartridge lasts from 6 to 12 hours continuous watering or spraying, according to the pressure turned on at the faucet. Listed below.



Using Sprinkling Can Cartridge

EARTHENWARE FLOWER POTS

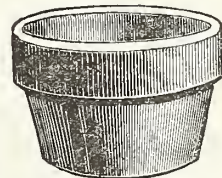
Sent by Express and Freight Only

	Each	Dozen	100
2 in.....	\$0.01	\$0.10	\$0.75
3 in.....	.02	.20	1.25
4 in.....	.03	.25	1.50
5 in.....	.05	.50	3.50
6 in.....	.07	.75	5.00
7 in.....	.10	1.10	8.00
8 in.....	Each \$0.15	Doz. \$1.75	
9 in.....	.20	"	2.00
10 in.....	.30	"	2.75
11 in.....	.40	"	3.75
12 in.....	.50	"	5.00
14 in.....	1.00	"	10.00
16 in.....	2.00	"	.....



Earthen Bulb Pans

5 in.....	Each	\$0.07	Doz. \$0.50
6 in.....	"	.10	" .75
7 in.....	"	.12	" 1.00
8 in.....	"	.15	" 1.25
9 in.....	"	.18	" 1.75
10 in.....	"	.20	" 2.25



FLOWER POT SAUCERS—Next page

PRICES ON KIRKE SYSTEM CARTRIDGES:

	Each	Half Doz.	Dozen	Mail Weight	Half Doz.	Dozen
Kirke Feeder (Cartridge Container)	\$3.00			Each 2 lb.		
Kirke Fertilizer Cartridge.....	.30	\$1.60	\$3.00	1 lb.	3 1/2 lb.	7 lb.
Kirke "Tobacco" Nicotine Insecticide Cartridge.....	.50	2.50	5.00	1 lb.	3 lb.	6 lb.
Kirke Arsenate of Lead Cartridge.....	.60	3.25	6.00	1 lb.	3 3/4 lb.	7 1/2 lb.
Kirke Bordeaux Cartridge (Fungicide).....	.40	2.00	3.50	1 lb.	2 1/2 lb.	5 lb.
Kirke Angle Worm Destroyer Cartridges.....	1.50	8.00	15.50	1 lb.	3 1/2 lb.	7 lb.
Kirke Fly Maggots Destroyer Cartridges, (Disinfectant Germicide) .....	.50	2.50	5.00	1 lb.	2 1/2 lb.	5 lb.
Kirke Sulphur Compound Cartridges.....	.50	2.50	5.00	1 lb.	3 1/4 lb.	6 1/2 lb.
Kirke Salt Cartridges.....	.20	.80	1.50	1 lb.	3 lb.	6 lb.
Kirke Sprinkling Can Plant Food Per Box of 12 Tablets.....	.50	2.50	5.00	1 lb.	4 lb.	8 lb.

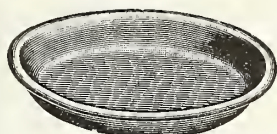
I have bought flower seeds from you which were planted in the grounds of the Aged Women and Aged Men's Home, and they did so well that I have to tell you about it.

Yours truly,

MRS. M. C. BAINBRIDGE,
1320 Bolton St., Baltimore, Md.

FIBRE FLOWER POT SAUCERS

Cleaner and more durable than Pottery



iameter	Weight	Each	\$	Dozen	\$
in.....	1/4 lb.	Each	.13	Dozen	1.40
in.....	1/2 lb.	"	.14	"	1.45
in.....	3/4 lb.	"	.15	"	1.60
in.....	1 lb.	"	.16	"	1.75
in.....	1 1/4 lb.	"	.17	"	1.95
in.....	1 1/2 lb.	"	.18	"	2.05
in.....	1 3/4 lb.	"	.20	"	2.40
in.....	2 lb.	"	.28	"	3.15
in.....	2 1/2 lb.	"	.50	"	5.50
in.....	4 lb.	"	.60	"	6.50
in.....	6 lb.	"	.90	"	9.75
in.....	6 lb.	"	1.00	"	11.75

Warren Patent Hoe—Heart shaped. See illustration, fig. 8. 90c. each.

Mattock Hoe—Fig. 9. 60c. each.

Special Price to Florists and Gardeners.

Fig. 9.

"Keen Kutter" Rakes—Bow pattern. Fig. 6. 14-tooth, 90c., Regular 14-tooth, 80c. Malleable Iron—12-tooth, 35c., 14-tooth, 45c. 45c. "Queen" Lawn Rake—Fig. 7. 24 teeth 60c. 44 teeth 85c.

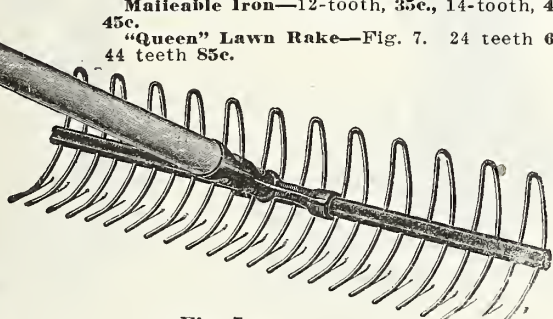


Fig. 7

Automatic Self Cleaning Wood Rake—70c. "Ole Olsen" Lawn Rake—All wood, 50c., 26 teeth, hickory wood. Wood Leaf Rake—Reinforced with 3 heavy wire bows, has 24 teeth. Price, 75c. Split Handle Hay Rake—All wood, 20-tooth rake, 35c., 10-tooth, 25c. "Keen Kutter" Ladies' and Children's Garden Tool Set—Fig. 8. Consisting of rake, shovel, hoe and spading fork. Made of first class material. Not toys, but tools that will do and stand the work. Price, \$2.25. Single tools: Shovel, 65c., Rake, 35c., Hoe, 50c., Spading Fork, 75c. See illustration, page —. Potato Hook, or 4-pronged Hoe—Price, 75c. "Keen Kutter" Turf, or Lawn Edger—For edging walks. Price, 90c. English Turf Edger—Price, \$1.25 without handle, handle 10c. extra.

Fig. 6

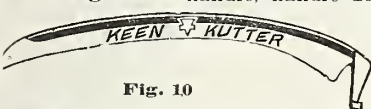


Fig. 10

Snathes—Light and heavy. Price, \$1.00.



Whetstones—Darby Creek, 10c., Carborundum, 25c.

GRASS AND CLOVER SEED SOWERS

Hand Seed Sower—Valuable for sowing vegetable, flower and lawn seed. Will distribute seed evenly. Adjustable. Price, 25c., postpaid.

Cahoon Seeder—For sowing clover, grass and other seeds. Price, \$3.00. Parcel Post weight 8 lbs.

Wheelbarrow Seeder—14 ft. \$6.50, 16 ft. \$6.75, double hopper, 4 ft. \$8.50.

Peace's Riveted Back Scythe—Imported. Very keen cutter. 6 in. \$1.40, 38 in. \$1.50, 40 in. \$1.60.

German Scythe—Hand tempered. Price \$1.25, snathes for same, \$1.00, extra rings, 15c. each.

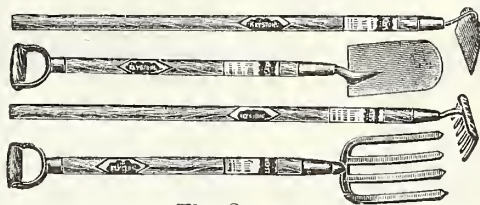


Fig. 8



Fig. 13

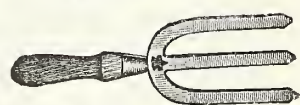


Fig. 12

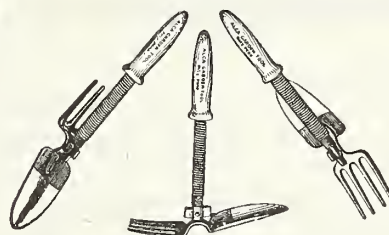


Fig. 11



Fig. 15

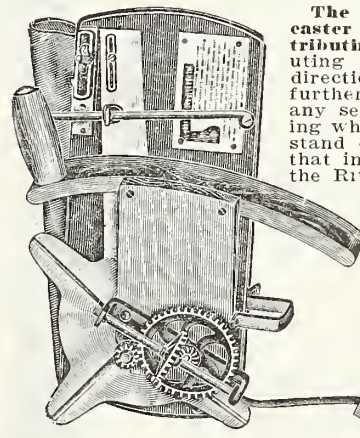
Keen Kutter Dock Cutter and Weeder—Fig. 18. Price, 75c.

Magic "EZ" Weeder—Fig. 13. Light in weight, strong in construction; excellent tool; in great favor; best for the price. Three tine. Best quality No. 8 1/2 steel wire. Nicely tinned. Length 9 in.; weight 4 1/2 oz. Black enameled handle. Price, 15c., weight 1 lb., large size 25c., weight 2 lbs.

The "Alca" Garden Tool Combination—Can be used as a weeding fork, transplanting trowel, hoe, rake, or dibble. Is very handy around small garden. Price, 35c. Weight 3 lbs. Fig. 11.

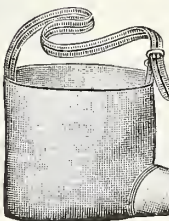
HAND GARDEN TOOLS—Continued on next page

RITTENHOUSE DOUBLE FAN SEEDER



The most efficient hand broadcaster ever invented, double distributing wheel—the two distributing fans revolve in opposite directions, throwing the grain further and more evenly than from any seeder with a single distributing wheel. This means a more even stand of grain and a larger yield, that in one season pays the cost of the Rittenhouse Seeder many times over. The material used in making this seeder is of the very best—the seeder is well painted—runs very lightly—and lasts a lifetime. The Rittenhouse Seeder is suspended from the shoulder at the side, and is far more convenient to handle than seeders which must be hung around the neck. Price, \$1.50. Parcel Post weight 6 lbs.

M. & S. TIN HORN SEEDER



Will spread seed evenly from 30 to 40 feet. Method of sowing is by swinging tube in horizontal position from right to left, which closely resembles the old method by hand. Gives control over seed on a circle of 8 feet before it leaves the tube, and the wind has no chance to blow seed into bunches before it strikes the ground. Cheap, durable, weighs only 12 oz. Simple; no repairs.

Will sow 60 acres per day of clover, timothy, millet, alfalfa, etc.

Parcel Post weight 1 lb.

Mr. Harry Busick of Towson, Md., says: Gentlemen: I planted two bushels of Irish Cobbler Potatoes purchased from your house and am delighted to tell you I harvested 30 bushels of fine large tubers out of the patch.

GARDEN TOOLS—Continued



Fig. 17

Dibbles, or Planting Pegs—Bent wood handle. 30c. Weight 1 lb. Fig. 17.

Oak Leaf Eureka Weeder—Fig. 16. Parcel Post weight 2 lbs. 35c.

Unique Garden Tool Set—Consisting of trowel, rake, hoe, edger and sickle, just the thing for ladies and children. Price, 50c. Parcel Post Weight 2 lbs.

"Keen Kutter" Garden Fork—Fig. 12. All steel, 75c., good steel fork, 25c. Weight of either 2 lbs.



Fig. 18

"Dandelion" Spuds—A practical weeder. Long handle Price, 25c.

Excelsior Weeder—Five teeth. Fig. 15. Price, 10c. Weight 1 lb.

Passtime Weeder—Price, 25c. Weight 1 lb. Long handle.

THE NEW WEED KILLER "ERADO"

"Erado" does away with the old-fashioned, laborious and back-breaking method of digging up dandelions and weeds of all kinds by hand. It is filled with a weed killing solution, an amount of the solution is dropped on the root; then by turning the tool the top of the plant is cut off. It is a simple matter to refill.



Solution to be Used

For killing dandelions and most ordinary weeds, gasoline or salt solution can be used to advantage. One pound of salt should be used to one quart of water.

For killing pig-weed and quack-grass, use a solution of iron sulphate.

Try "Erado." It is guaranteed. If it is not entirely satisfactory, you can return this implement for the full purchase price, \$1.00. Parcel Post weight 2 lbs.

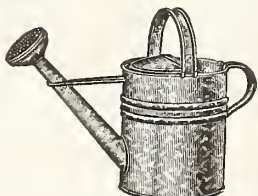
Cleveland Weed Puller—Fig. 17. Valuable for extracting weeds from the lawn. A great back saver. The curved edge of the blade enters and loosens the soil; pressure on the lever then causes the toothed jaw to grasp the plant, and a slight pull will dislodge it without disturbing the surrounding sod. Price, 65c. weight 4 lbs. Fig. 19.

"Keen Kutter" Trowel—Fig. 14 The best, 75c. Weight 2 lbs.

All-Steel One-piece Trowel—25c. and 50c. Weight 1 lb.

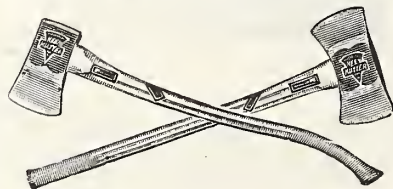
Ladies' Trowel—10c. Weight 1 lb.

Transplanting Trowel—6 in. 15c., 8 in. 20c. Weight of either 2 lbs.



Keen Kutter Ax—Guaranteed article, \$1.75. Others at \$1.50.

Hatchet—Beatty's Hatchets, Half Pattern and No. 2 Shingling, best quality. Each 75c.



Hoe Trowel—For setting out plants. Price, 40c. Weight 2 lbs. Watering Cans—Made of heavy galvanized iron, removable rose. 4-qt. 45c., 6-qt. 55c., 8-qt. 65c., 10-qt. 75c., 12-qt. 85c., 16-qt. \$1.25. Long Spout Watering Cans made to order.

Fig. 19

Hoe Trowel—For setting out plants. Price, 40c. Weight 2 lbs. Watering Cans—Made of heavy galvanized iron, removable rose. 4-qt. 45c., 6-qt. 55c., 8-qt. 65c., 10-qt. 75c., 12-qt. 85c., 16-qt. \$1.25. Long Spout Watering Cans made to order.



Fig. 19



Fig. 17



Fig. 18

Mehler Hoe—Fig. 18. Combination hoe, cultivator and so pulverizer combined. Just the thing for celery culture. Price, \$1.00.



Mehler's Edger—Fig. 19. The perfect tool for cleaning out and edging up the sides of cement walks. It is the only tool of its kind found far to be practical. It is made of the best steel, is very sharp and can be resharpened readily when dull. Price, \$1.00 each.

Mehler Gardener—Fig. 17. An entirely distinct tool; avoids bending the back, works closer to the plant than any other device. No hoe needed where this is used; just the thing for working among flower and vegetable plants. Price, 85c. each.

NORCROSS CULTIVATORS AND WEEDERS



These are the most modern tools for garden and flowers. They are light and strong and cultivate closer to plants without injuring them than any other kind of implement, leaving the soil level, loose and untrampled.

Cost but little more than the common hoe—accomplish much more and better work with less labor. They cultivate the soil.

Use on handle or attach to a Wheel Plow.

The "Norcross" 5-prong is the only Cultivator-hoe with detachable ferrule (pat'd) whereby 4-foot handle will detach and by means of "Norcross" Universal Connection at

a cost of 10c. extra. Cultivator may be attached to the standard types of Wheel Plows. Above it is shown attached to an Iron Age.

This connection also has a rear extension for attaching to Plows or Vertical Leg Construction.



The "Norcross" line is of the highest quality and finish throughout.

Three sizes and prices: 5-pronged, 4 ft. hdl. .75; 3-pronged, 4 ft. hdl. .50; "Midget" 9 in. hdl. .25.

Weight, 3 lbs, 2 lbs, 12 oz. Detachable Steel Prong Malleable Head. Extra High-Grade Handles.

BASKETS, BAGS, ETC.

Pea Bags—Used by Anne Arundel farmers for bringing peas to market. **Price, 15c.**, for quantities write for price.
Picking Baskets— $\frac{1}{2}$ bu. size 15c. each. Per dozen, without handles \$1.75, with bow handles \$2.00.
White Oak Baskets—Side handled, 1 bu. 60c.
Split or Chip Baskets—With handle. $\frac{1}{4}$ bu. size, 5c., $\frac{1}{2}$ bu. size 10c.
Strawberry Boxes—1 qt. size 10c. dozen, per 100 60c., per 1000 60c. furnished on application.

RUNNING SHEARS, SAWS, KNIVES, ETC

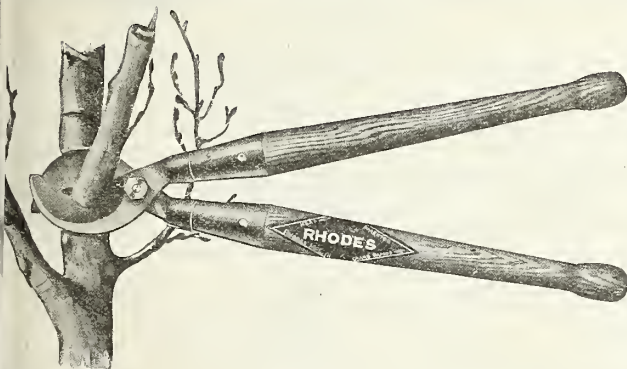


Fig. 1

Rhodes Double-Cut Lopping Shears—Fig. 1. For trimming trees, bushes, heavy shrubbery, etc. Makes an absolutely perfect cut; the blades are concaved at the cutting edge, producing with the handles an enormous leverage. They are the easiest operating lopping shears ever made or sold; 24-in. handle. **Price \$2.75.** Parcel Post weight 5 lbs.

Keen Kutter" Pruning Shears—Fig. 2. Curved blade with hook. Forged from high-grade crucible steel; polished and tempered, ratchet opening knot; extra heavy 10 long steel ferrules; handles riveted through ferrules at tang; hardwood handles; natural finish; 20-in. handled, 50c.; 24-in. handled, \$1.75.

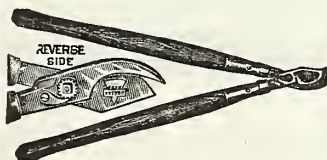


Fig. 2

Keen Kutter" Tree Pruner—Select hardwood pole, natural finish; forged steel hook, painted red, riveted to handle; tempered crucible forged tool steel drawn cutting blade $4\frac{1}{4}$ in. long, insuring ample leverage; copper finish steel wire drawing; steel lever handle; painted red with hardwood grip; clip at handle works in bolted to pole; length of lever handle 10 in.; 8 ft., \$1.00; 10 ft., \$1.25; 12 ft., \$1.50.

Telegraph Tree Pruner—Without pole, \$1.00, saw attached, 50c. Parcel Post weight, 4 lbs.

Unique Hedge Trimmer—Fig. 3. No experience is required to operate the "Unique" Hedge trimmer. It is so simply constructed, so easily operated and so effective that a novice can do the work better and more easily than our trimmer than a professional with the old method of trimming with the hedge shears. **Price, \$5.00 a pair.**



Fig. 23



Fig. 24

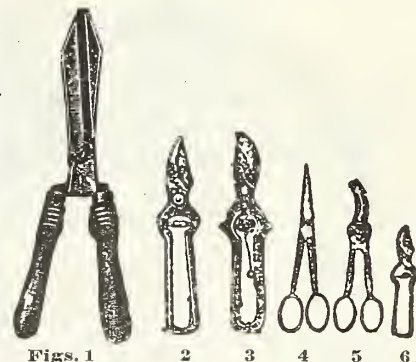
Jointed Pole Tree Trimmer—Fig. 24. 12 feet long can readily be transformed to 8 foot trimmer; made of the best material; very strong. **Price, \$2.75.** Parcel Post weight 8 lbs.

Lawn Shears—Two wheels, 8-in. blade, for cutting on narrow borders, under fences and shrubs. **Price, \$2.75.**

Border Shears—10 in. \$2.50, without wheel \$2.25.

Snips—For cutting flowers, small twigs and wire. Fig. 4. 75c. each. Weight, 1 lb.

Hand Pruning Shears—Fig. 2. $9\frac{1}{2}$ in. full polished German pruner \$1.50, $8\frac{1}{2}$ in. \$1.00, $7\frac{1}{2}$ in. 85c. Fig. 3. $8\frac{1}{2}$ in. French pruner, very good, \$1.25. $8\frac{1}{2}$ in. No. 1537, a good pruner, 50c., 6 in. Ladies' pruner, full polished, 85c. Fig. 6. Parcel Post weight on all hand pruners 2 lbs.



Figs. 1

2

3

4

5

6

Solid Steel Imported Hedge Shears—Fig. 1. The celebrated English shears. 12 in. \$2.25, 10 in. \$2.00, 9 in. \$1.75, 8 in. \$1.50. All equipped with notch; the notch is very useful in heavy trimming or lopping. Parcel Post weight on all hedge shears 3 lbs.

Ladies' Hedge Shears— $5\frac{1}{2}$ in. cut. **Price, \$1.25.** Parcel Post weight 2 lbs..

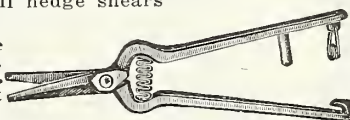


Fig. 7

Flower Gathering Scissors—Large and perfect. Do not tire the hands. **Price, \$1.00.** Fig. 5. Weight 1 lb.

Grape and Flower Shears—Fig. 7 very useful. **Price, 35c. each.** Parcel Post weight 1 lb.

Grass and Sheep Shears—Full polish, imported shears, \$1.00; half-polished, excellent quality, 75c. and 50c.; fine for trimming grass; cheaper grade 25c. Weight on all 1 lb.

Mule Shears—For trimming fetlocks **Price, 50c.** Weight 1 lb.

Pruning Knives—Horn handle 75c., wood handle 65c., postpaid.

Budding Knives—Ivory handle \$1.25, bone handle \$1.00, postpaid.

Pocket Knife—Combined pruning and budding. \$1.00, postpaid.

Pruning Saws—Made of the very best material, 75c., somewhat larger, stronger and coarser teeth and adjustable handle. Fig. 8. \$1.00. Weight 2 lbs.

Grafting Wax— $\frac{1}{4}$ lb. 10c., $\frac{1}{2}$ lb. 20c., 1 lb. 35c.

Townsend Grass and Weed Sickle—Fig. 20. Light, strong, durable. The blade 13 in. long, $2\frac{1}{4}$ in. wide at the heel, is made of crucible steel, oil tempered and sharpened to a razor edge.

The shank, made in two parts, of pressed steel forms the socket for handle, and the blade is riveted between these two parts, making a solid coupling which will not break or become loose. The handle is selected ash. A slight bend in the shank throws the handle, which is 3 ft. 8 in. long, up at an angle which enables the user to stand almost erect when at work. **Price, 75c.** Weight 2 lbs.

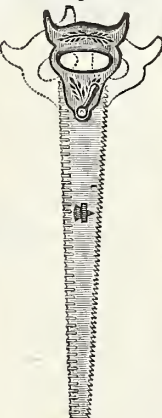


Fig. 7



Fig. 8

PARCEL POST SHIPMENTS

Where goods can be shipped in this manner, we have affixed the packed weight opposite. Where remittance accompanies order please include sufficient to cover mailing charges. Consult your post office for proper amounts.

Owing to the unsettled condition and the scarcity of raw material the prices on all iron and steel goods are subject to change without notice.

SICKLES—Continued on next page

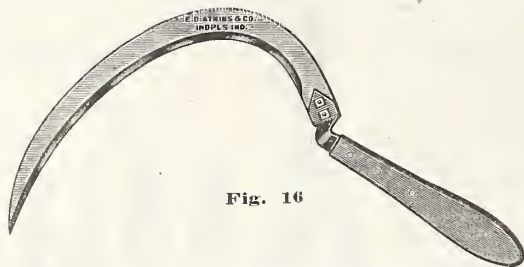


Fig. 16

No. KKB. Keen Kutter Grass Hook—Trowel Shank: Blades hammered from crucible steel bar. Tempered and polished ground and hones, sharpened ready for use; natural finish hardwood handle 6 in. long; 11 in. long from point to shank; blade 1½ in. wide; shank extends into handle 3¼ in. and is fastened with three steel rivets. Price, 65c. each. Parcel Post Weight 2 lbs. Fig. 16.

English Grass Hooks, or Sickles—Riveted back. Price, 40c. and 45c. Solid blade, 30c. Weight 2 lbs.

German Grass Hooks or Sickles—Price, 35c. Weight 2 lbs.

Asparagus Buncher—The latest improved. Price, \$1.75. Weight 4 lbs.

Asparagus Knife—Fig. 17. Which makes a fine weeder as well. Price 30c. Weight 1 lb.

Wire Fruit Pickers—To be adjusted to long pole. Price, 25c. each. Weight 2 lbs.

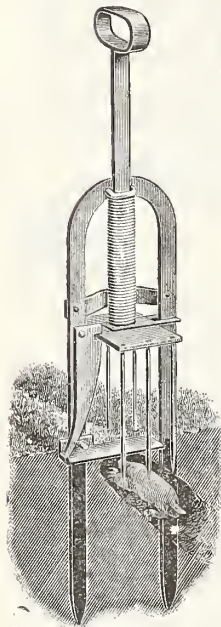


Fig. 21

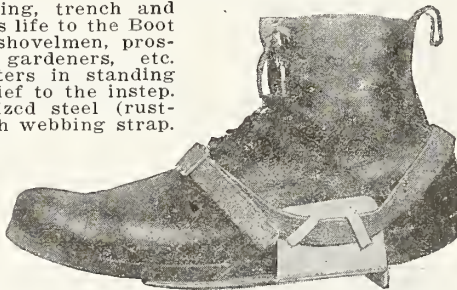
RITTENHOUSE MOLE TRAP—Fig. 21 Fig 17

The simplest, safest and surest mole trap ever invented. Self-setting. No danger of its going off unless the trigger is touched. Made of all steel and tinned. The spears are spring steel, therefore, do not have to be as long as soft steel. Price, 75c. Parcel Post weight 3 lbs.

"UNION" BOOT PROTECTOR

Used in Excavating, trench and railroad work. Adds life to the Boot or shoe. Used by shovelmen, prospectors, farmers, gardeners, etc. Excellent for painters in standing on ladders. Big relief to the instep. Made of sherardized steel (rust-proof.) Fitted with webbing strap.

Lightens the work and prevents sore feet. Price 50c. pair. Parcel Post weight 1 lb.



TWINES, GARDEN REELS, ETC.

Jute Twine—3 ply 10c. ball, 25c. lb.
Cotton Twine—3 ply, for tying vegetables, 5c. ball, 20c. lb.
Cotton Twine—4 ply, special thin 8c. ball, 30c. lb.
Blinder Twine—Standard; ball 75c. 5 lb. quantity price furnished on application.
Fodder Twine, or Tared Sisal—Lb. 15c. Quantity Prices furnished on application.
Marlin—For mat making, 25c. ball.
Plow Lines—Cotton, per pair, 45c. Sisal, 30c. Weight 2 lbs.
Garden Line—150 feet of good cotton line 25c.
Garden Reels—Medium 75c., large \$1.00 large. double reel \$2.00.



Fig. 21

Asparagus Tape—In fast color and red, glazed finish, 1,000 yard spool. \$2.25.

Trace Chains—7 ft., straight link, hook or ring. Price, 75c. per pair.

Cow Chains—20 feet. Tying out, 75c. and \$1.00; stable ties 25c.

Raffia—Fig. 21. For tying asparagus, and used extensively for tying roses, chrysanthemums or anything in the garden. Price, 25c. lb., 5 lbs. \$1.00. Special price on quantity

Breast Chains—Double 50c. pair, single 40c. pair.

Iron Bound Hames—Price, 75c. per pair.

Hames Straps—Price, 20c. each.

Back Bands—Leather loop 75c., patent 50c.

Hot Bed Sash—Made to hold either 24 or 28 8x10 panes. These sashes are grooved so that the panes slide in and but one against the other. Price of either size, \$1.00 each.

Hotbed Glass—Box of 90 panes, 8x10 \$2.25.

Hotbed Mats—Burlap covered 40x7 size, covers one sash, \$1.75; 76x76, covers two, \$2.75. Special prices by dozen.

Putty Bulbs—

For applying liquid putty. Fig. 22.

Price, \$1.00.

Parcel Post wt. 1 lb.

Twemlow's Old

English Glazing

Putty—Semi-liquid. For bedding-glass in sash and filling cracks or seams in roof joints or frames of hotbed or green-houses. Gal. \$1.65.

Peerless Glazing Points

—The finest glazing points on the market. Per box of 1000 60c., pincers, pair 50c. Parcel Post weight 1 lb. on both.

A few of Its Good

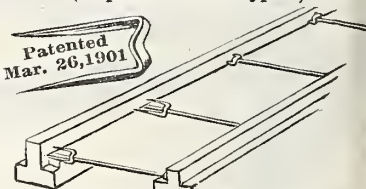
Points—No raising up when driven. No rights. No lefts. No sliding. No trouble to apply. Cheap

indestructible. Once used, always used. Try them

once.

Plant Bed Cloth—A cheap substitute for glass, and will keep out many degrees of frost; for poultry houses. Also useful for shading material. Samples mailed on application. Heavy grade, yard 15c.

"PEERLESS" GLAZING POINT, (Improved Van Reyper.)



Patented Mar. 26, 1901

THERMOMETERS

Regular Thermometer—Nicely finished. Prices, 25c. and 50c.

Self Regulating Hothouse Thermometer—Best grade, \$3.50.

Hotbed Thermometer—Brass point. Fig. 8. Price, \$1.75.



Fig. 8

RUBBER HOSE, REELS, MENDERS, ETC

The hose we offer is the best. It is guaranteed not to break.

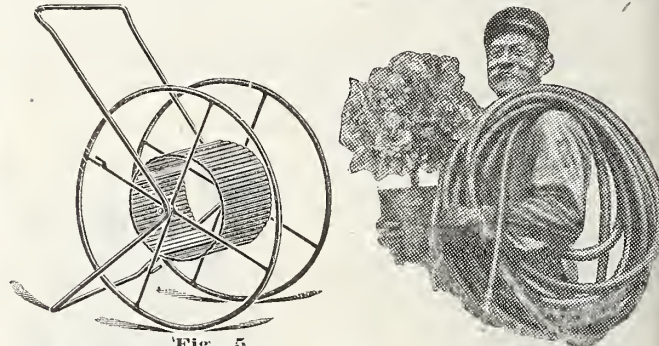


Fig. 5

¾ in. Motor—5 ply, 25 ft. \$2.50, 50 ft. \$4.50, black hose.

¾ in. Royal—5 ply, red hose, 25 ft. \$3.00, 50 ft. \$5.50.

¾ in. Reno—4 ply, black hose; a piece of hose which will last several seasons. 25 ft., \$3.50, 50 ft. \$6.50.

Norwood—Continuous hose. We can furnish any length of this hose desired up to 500 ft. lengths; as good as any hose at 15c. per ft. including couplings, in 25 ft. lengths or over.

Hose Couplings—Brass, regular size 15c. per pair.

Hose Washers—Rubber, regular size 10c. per dozen.

Hose Bands—For ¾ and ½ in. hose, 2 for 5c., 25c. dozen.

Hose Nozzles—Combined solid stream and spray, 50c. each.

Hose Reels—Wood \$1.00, steel \$2.00. Fig. 5.

"Hudson" Garden-Hose Mender—For ¾ in. hose. Specially adapted for family use. Hose can be mended or coupled securely and quickly. So simple that a child can use it. Price, complete with pliers, including six menders, 60c. Single menders, 10c., 3 for 25c. Pliers, 25c. postpaid.

The Sure-Shut Hose Mender—Fig. 7. The simplest, strongest and best device on the market for repairing leaky hose. No tools whatever are necessary to attach it. Can be put on with the hands alone in less than a min-



Fig. 7

e. Makes an absolutely water-tight connection. Is made entirely of brass, will not rust. Will fit any make of hose. Can be detached and used over and over again. Each 15c., per dozen, \$1.50, postpaid.



Bag all grapes to keep them from insect stings.

GRAPE PROTECTING BAGS

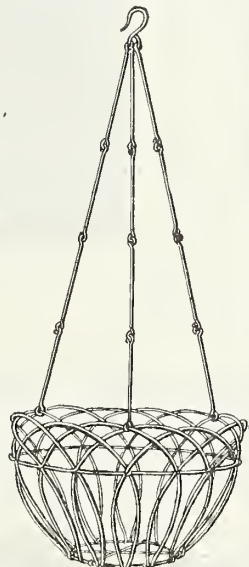
If put on during the period when grapes are forming, they will save many times their cost in the amount of fruit they will save from insects, rot, etc. All ready with wire to fasten.

	100	1000
2 lb. size.....	\$0.40	\$3.25
3 lb. size.....	.45	3.75
4 lb. size.....	.50	4.25
Parcel Post weight on all three		
2 lbs. per 100, 15 lbs. per 1000.		

Sent by Express Only

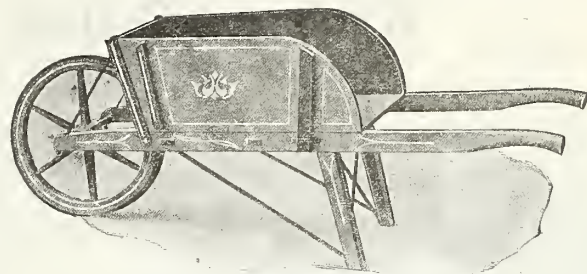
WIRE HANGING BASKETS

Help make the city beautiful by stalling wire hanging baskets and window shelves filled with beautiful flowers. Made of good heavy wire painted green and decorated in gold bronze. See illustration. Baskets 8 in. 25c., 10 in. 35c., 12 in. 50c. P. P. Weight 2 lbs. each.



WHEELBARROWS, CARTS, WATER TRUCKS, ETC.

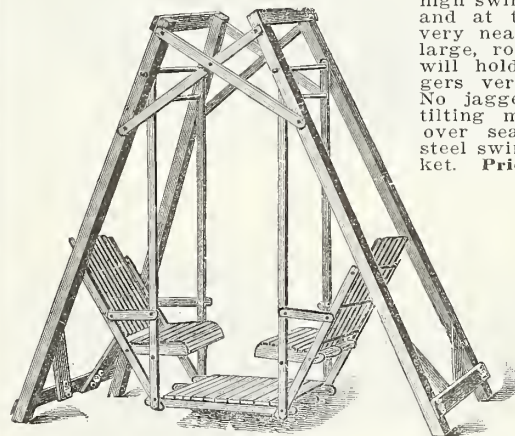
No. 4 Wheelbarrow—Boy size. Identical with No. 3, only much smaller; handy for small place. Price, \$3.25.
No. 3 Wheelbarrows, for Garden and Farm Use—A durable, neat garden barrow. Size of body, 26 in. long, 19 in. wide in front, 22 in. wide at back. Sideboards, 27 in. long, 12 in. high; handles, 4 ft. 9 in. long; 2x1½ in. wheel; 20 in. diameter; 6 spokes, \$4.00.
No. 2 Garden and Farm Barrow—Little larger than No. 3. Price, \$4.25.



No. 3 Garden Wheelbarrow

No. 1 Farm Barrow—Still larger than No. 2. Price, \$5.00

"Eagle Lawn Swing"
—This is an all-steel high swing, very strong and at the same time very neat. It has two large, roomy seats and will hold four passengers very comfortably. No jagged corners, no tilting motion; awning over seats. The best steel swing on the market. Price, \$15.00



"Rock-A-Bye" Lawn Swing. Made for durability and wear. A far superior article to the ones bought in department stores. Price of two passenger swing \$6.00; four-passenger \$7.50

WATER TRUCKS AND COMBINATIONS

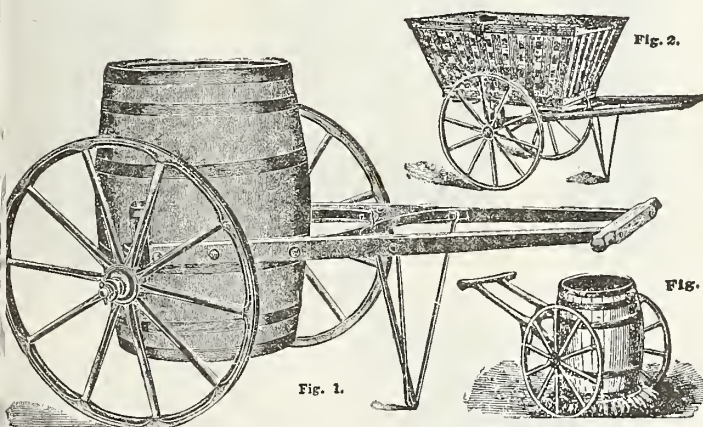


Fig. 1.

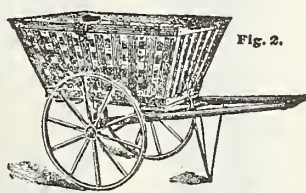


Fig. 2.



Fig. 3.

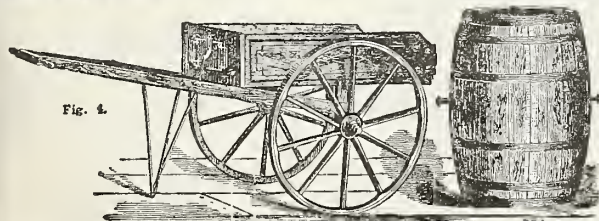


Fig. 4.

Fig. 1 represents our Barrel Cart, to which can be attached any of our Barrel Spray Pumps. This is a convenient combination, and may be found useful in various ways, such as watering gardens, spraying fruit trees, etc.

Fig. 2 shows Truck with Leaf Rack attachment.

Fig. 3 shows Truck and Barrel with Sprinkler Attachment.

Fig. 4 shows Truck and Box, with Barrel Detached.

Dimensions: Height of Wheels, 2 ft. 9 in.; Distance between Trunnions, 2 ft. 2½ in.; Width Tire, Steel, 1½ in., 2½ in., 3½ in.; Wood, 1½ in., 2½ in., 4 in.

Box inside Measure Width, 22½ in.; Length, 24 in.; Height, 8½ in. Box has tail door.

Water Truck, with Regular 1½ in. Tire, Either Steel or Wood Wheels..... \$ 7.50

For 2½ in. Tire Add 75c. to Regular 1½ in. Tire.

For 3½ in. Tire Add \$1.50 to Regular 1½ in. Tire.

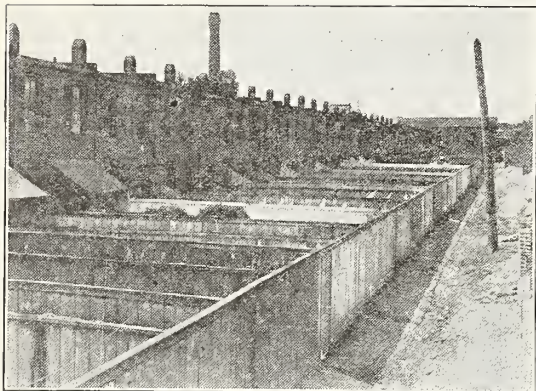
	Price
Water Truck and Barrel.....	11.25
Water Truck and Box.....	11.25
Water Truck, Barrel and Box.....	13.75
Sprinkling Attachment.....	3.50
Leaf Rack.....	6.00
Barrel.....	3.50
Box.....	3.50
Trunnions, per pair.....	.55

Baltimore Push Cart—Similar to Fig. 4. For the merchant, printer, farmer, etc., to have one of these carts on his premises it will be found a most useful vehicle. There are so many purposes for which they can be employed—carrying bundles, printers' forms, farmers' tools and light implements, etc. It is never out of place, and always ready to pick up at short notice. Price, \$9.00.

Prices Subject to Change Without Notice

Waukegan-Cyclone Sanitary Wire Fencing

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



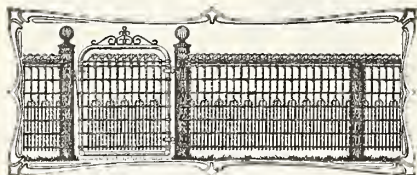
Before

Note the remarkable change shown in these two pictures. These pictures show back-yards in Baltimore that come back to the same alley. On the left is the unsightly, unsanitary tight board fence, that hides dirt, disease germs, rubbish and filth. On the right WAUKEGAN-CYCLONE Sanitary Fencing has replaced the old board fences and opened up the yards to fresh air and sunlight.

WAUKEGAN-CYCLONE Sanitary Fence actually cost less money than tight board fence. Dark unsanitary back-yards are changed into blocks of flower-beds, gardens and lawns and happy children's playgrounds. Danger from fire is lessened. The health of the family is preserved and the property is doubled in value.



After



Style F Cyclone Fence

Price per lineal foot, Style "F," 36 in., 15c.; 42 in., 13c.; 48 in., 14c.; 48 in., 15c.; three foot walk gate to match, three heights of fence, \$3.00.

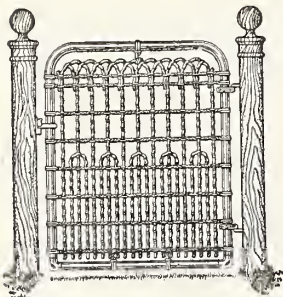
Style "F" is our most popular sanitary wire fence. Pickets are all No. 9 heavily galvanized wire spaced 1 3-8 in. apart at bottom, 2 7/8 in. at top, making fence absolutely chicken tight.

Regular heights are 36 in., 42 in., and 48 in. Other heights up to 84 in. furnished.



PERFECTION FLOWER-BED BORDER

Fits any shape or size of flower-bed, no posts required. Cut to any length. Bottom of pickets left straight to be inserted in the ground. Made in two heights. Price, per lineal foot, 16 in., 7c.; 22 in. 8c.



UNIVERSAL WALK GATE

Made of heavy high-carbon steel tubing, non-breakable frame with Style "F," chicken-tight fabric; hinges and latch to hang to wood posts.

Heights, 36 in., 42 in., and 48 in.

Price for 3 foot opening, \$2.50.

Any size.

Single Drive Gate, 12 foot, height 48 in., \$8.25.
Double Drive Gate, 12 foot, height 48 in., \$10.00.

Mrs. George R. Willis, of Bengies, Md., writes us: Gentlemen: I want to say to you that I have had better success with your Sweet Pea Mixture than any I have ever bought.

Style "L-Extra" is exactly like Style "F" only the lower picket is not used. For this reason it is slightly cheaper in price and is specially recommended for division fences for front or back yards.

Regular heights are 36 in., 42 in. Other heights up to 84 in. furnished.

Price per lineal foot, Style "L-Extra," 36 in., 10c.; 42 in., 11c.; 48 in., 12c. Three foot walk gate to match, \$3.00.

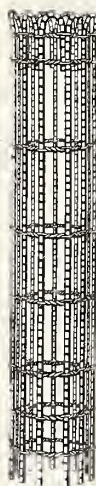


Fig. 2



Fig. 1

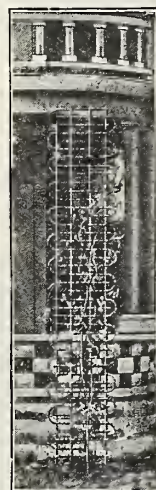


Fig. 3

WIRE TRELLIS

Just the thing for climbing plants and flowers. Cut to any length, fits any porch. The most inexpensive practical trellis made. Furnished in two widths.

Price per lineal foot 18 in., 7c.; 24 in. 8c.; 30 in., 10c.

RUBBISH CONSUMERS—Fig. 1

Burns waste paper, rubbish and all combustible materials without scattering and without danger from fire.

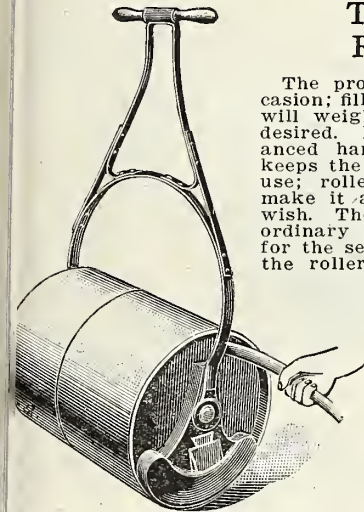
Made of large heavily galvanized wire with re-inforced bottoms and sides, and inside iron rings.

Made in four sizes:

- No. 1. Height, 20 in.; diameter, 14 in. Price, \$1.50.
- No. 2. Height, 24 in.; diameter, 15. Price, \$1.75.
- No. 2 1/2. Height, 30 in.; diameter, 18 in. Price \$2.75.
- No. 3. Height, 35 in.; diameter, 20 in. Price, \$3.50.

Wire Tree Guard—Fig. 2. Carefully galvanized, thoroughly made 8 inches diameter, \$1.25 each; per dozen, \$13.50.

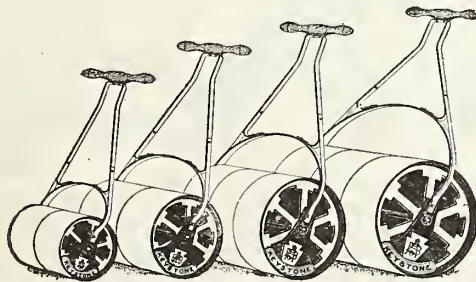
M. & S. WATER BALLAST LAWN AND TENNIS COURT ROLLERS



The proper roller for most any occasion; fill it with water or sand, which will weight it any number of pounds desired. Equipped with counter-balanced handle weights, which always keeps the handle in position ready for use; roller axle bearings. You can make it as heavy or as light as you wish. The drum can be filled with an ordinary garden hose, when through for the season pour the water out and the roller is easy to put away.

For an even green Velvety Lawn, always sow M. & S. Roland Park Lawn Grass Seed and M. & S. Shady Nook Mixture. For particulars, price, etc., see page 16

No.	Diam. In.	Lgth. In.	Weight			Price
			Empty	Filled Water With	Filled With Sand	
02 B	18	24	155	410	555	\$11.50
03 B	24	24	180	525	710	14.50
04 B	24	32	200	665	935	17.50



Keystone Roller Bearing Lawn Rollers—To raise a velvety, hick lawn and keep it so the lawn roller is a great aid. In the Spring, after a season of freezing and thawing, the ground becomes uneven and porous, and receding, from the grass roots. If allowed to settle of its own accord the lawn is left rough and the grass liable to die off in high spots. If pressed back firmly and evenly with a lawn roller the chances for a new, velvety lawn are more favorable.

No. 501, diam. 15 in., 2 sec., weight 150 lbs., length 15 in., \$11.00
No. 504, diam. 20 in., 2 sec., weight 250 lbs., length 20 in., 15.00
No. 507, diam. 20 in., 2 sec., weight 300 lbs., length 24 in., 17.50
No. 509, diam. 24 in., 2 sec., weight 400 lbs., length 20 in., 23.00

Lawn Padders—Very useful in padding down seed, where a roller cannot be used. Two strong boards, 9 3/4 in. by 20 in., arranged each with a rope attached to the feet. Price, complete, \$1.00 per pair. Parcel Post weight 8 lbs.

HAND LAWN MOWERS

Coldwell Trimmer Mower—Fig. 1. This is an excellent machine for trimming around flower beds, shrubbery and walk edges. The revolving cutter is 6 in. wide, and cuts within 1/4 in. of side obstruction. It has only one drive wheel. Price, \$6.00.

Horse Lawn and Field Rollers and Other Size Hand Rollers—Prices furnished upon application.

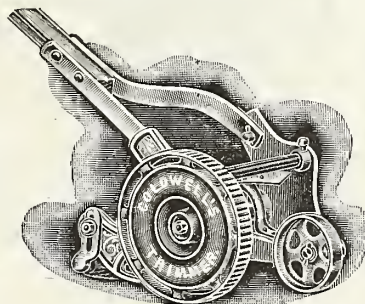
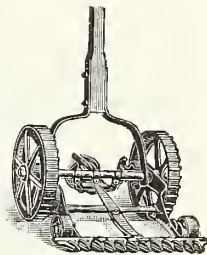


Fig. 8

Pennsylvania High Wheel Mower—This high-grade mower is constructed for cutting ordinary grass, as well as grass from 6 in. to 10 in. high. Wheel, 10 1/2 in.; cylinder, 6 1/2 in. Four crucible steel knives. Price, 15 in., \$14.50; 17 in., \$16.00; 19 in., \$17.50; 21 in., \$19.00.

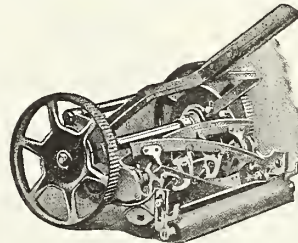
The "Clipper" Mower—There are three things that tend to destroy your lawns—dandelions, buck plantains and crab grass. In one season the Clipper will drive them all out. No. 1, 12 in. cut, \$6.75; No. 2, 15 in. cut, \$7.50; No. 3, 18 in. cut, \$8.50; No. 4, 24 in. cut, \$9.50.

Pony Clipper Mower—24 in. cut, \$20.00.



M. & S. "Regal" Ball Bearing Lawn Mower—This machine has been thoroughly tried out by us the past three years. We are glad to say that it has made good in every way. Hundreds of our customers have assured us of the superiority of this machine.

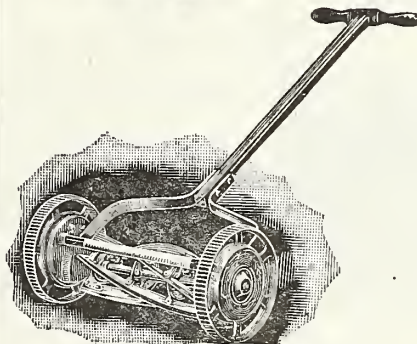
Prices: 14-in. cut, \$11.00; 16-in. cut, \$12.00; 18-in. cut, \$13.00; 20-in. cut, \$14.00.



M. & S. "Interstate" Ball Bearing Lawn Mower—First-class, high wheel, ball bearing lawn mower at a popular price. The four revolving knives give a continuous cut. Made of best materials, easy running, and fully warranted.

PRICES:
14-in. cut, \$7.00;
16-in. cut, \$8.00; 18-in. cut, \$8.50; 20-in. cut, \$9.00.

Send your Lawn Mowers in to be sharpened. We do this thoroughly and reasonable.



M. & S. Interstate

M. & S. "Colonial" Ball Bearing Lawn Mower—A grand little machine that runs so easy that it can be operated by a lady or child. The four revolving cutter blades are made of the finest material.

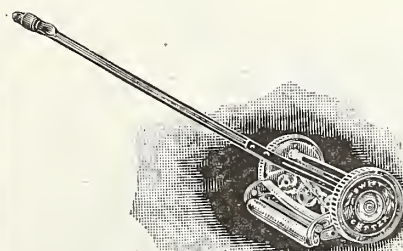
PRICES:
12-in. cut, \$4.75;
14-in. cut, \$5.25; 16-in. cut, \$5.50.



The "Colonial" Lawn Mower Ball Bearing

M. & S. "Swift Cutter" Lawn Mower—For the benefit of those who want a low-priced mower, and for those who have but little grass to cut, we offer the best cheap mower made. While the prices are as low as "department store" prices, this mower will be found much better in quality of knives and quality of work performed.

Prices: 10-in. cut, \$2.75; 12-in. cut, \$3.00; 14-in. cut, \$3.50; 16-in. cut, \$4.00.



M. & S. Swift Cutter

LAWN MOWERS—Continued on next page

LAWN MOWER SHARPENING—This work is done for us by a competent mechanic, and we can insure entire satisfaction.

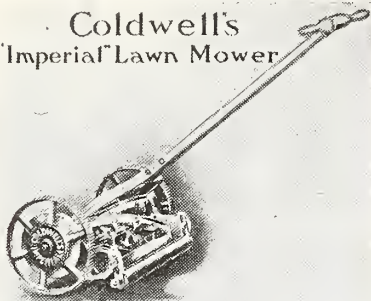
Gentlemen: About the middle of April I purchased from you some of your "Shady Nook" Lawn Grass Seed. About a week or so ago I sowed same in the ground, mixing with it at the same time some of the Diamond Brand Compost as a Fertilizer, and am more than pleased with the results as the Grass is not only thick, but is about one inch high.

Yours very respectfully,

JULIUS WEGNER, 4755 Park Heights Ave.

LAWN MOWERS—Continued

Oil Cans—Filled with oil. 15c. and 25c. each.

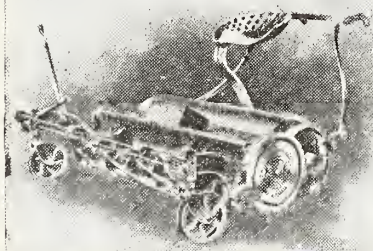
Coldwell's
"Imperial" Lawn Mower

Coldwell "Imperial" High Wheel Mower.—For durability and for hard, rough work this is the mower to buy. Thousands are in use in city parks and cemeteries throughout the country. The best non-ball bearing mower ever made.

PRICES:

14-in. cut, \$10.00;
16-in. cut, \$11.00; 18-in. cut, \$12.00; 20-in. cut, \$13.00.

MOTOR AND HORSE LAWN MOWERS

Coldwell's "Improved"
Horse Lawn Mower

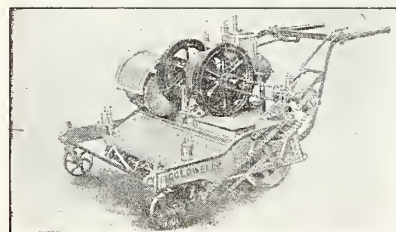
This well-known standard mower has side draft attachment that enables the horse to walk on the cut grass only, and caster rollers which will not mark the lawn. Evenness of cut is assured by an adjustment which raises or lowers the two sides at the same time by means of a simple lever movement. This same lever serves the purpose of raising the knives from the ground when driving over the gravel walks or roads. Price, 30-in. cut (complete), with seat and shaft, \$70.00.

25-in. cut Pony Machine, less shafts and seat, \$42.50.

Coldwell Demountable Cutter Unit Horse Lawn Mower—Like the above, but has two revolving cutters, which can be replaced very quickly. 30-in. machine, \$125.00.

Horse Lawn Boots. Price, per set of four, \$12.00; No. 2, 5½ in. inside; No. 4, 6½ in. inside; No. 6, 7 in. inside.

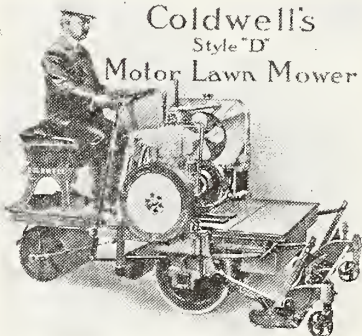
Coldwell's Combination Roller and Motor Lawn Mowers, Style F and H, Walk Type—Are designed for use on small estates, tennis grounds, etc., not sufficiently large to warrant the purchase or use of one of the larger and heavier machines.



Style F & H

Coldwell's "Demountable Cutter Unit"—Putting Green Mower

—In this mower every requirement pertaining to the cutting of putting and bowling greens has been considered and provided for. Each machine is provided with two complete cutting parts, one to be in use while the other is being sharpened. Removed or attached in a moment. Price, 18-in. cut, \$37.50.



Style D & E

Coldwell's

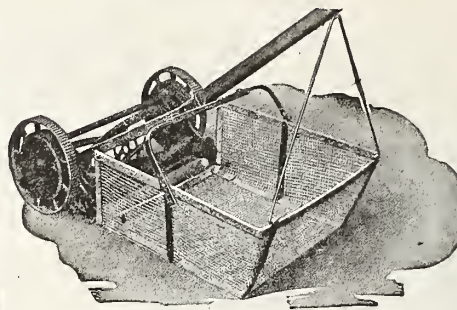
Style "D"

Motor Lawn Mower

Style "D" and "E"—These mowers are highly recommended and are used by leading country and golf clubs and in the city parks and cemeteries.

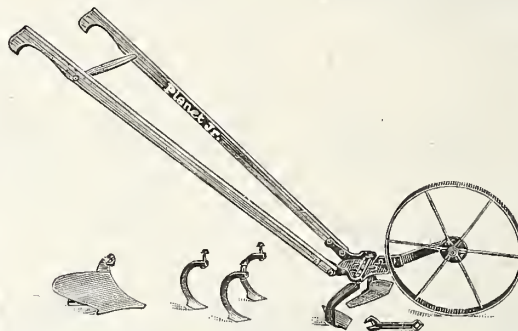
Send for illustrated and descriptive circular. Prices furnished on application.

THE M. & S. WIRE GRASS CATCHER



There always have been makers of mowers on the market that could not be properly fitted with a grass catcher. The M. & S. designed to fit any size or style of mower and can be attached or detached in a moment. Made of galvanized iron. Hard ware cloth. Fits any mower.

Price, \$1.50.
Canvas Grass Catcher—No. 1 \$1.10; for 12-in. to 16-in. mowers; No. 2, \$1.25; for 16-in. to 20-in. mowers.

PLANET JR.
GARDEN TOOLS

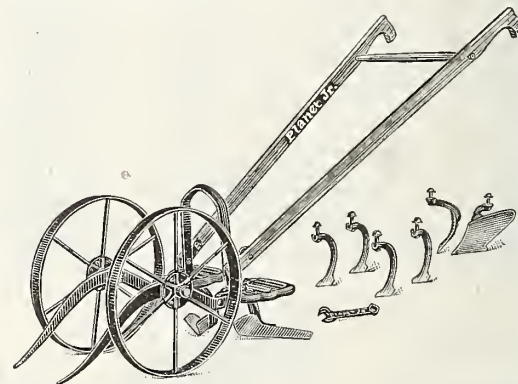
No. 17 Planet Jr. Single Wheel Hoe—Price, \$6.25. Steel Frame and Wheel. The highest type of single wheel hoe made. Light, but strong, and can be used by man, woman or boy. Will do all the cultivation in your garden in the easiest, quickest and best way.

Indestructible steel frame and steel wheel.

No. 16. "Planet Jr."—Same as No. 17, but has also one five-tooth rake, one three-tooth and a leaf guard. Price, \$7.25.

No. 17½. "Planet Jr."—Same as No. 17, but has no plow, but in addition has a leaf lifter. Price, \$5.50.

No. 18. "Planet Jr."—Only equipped with one pair 6-inch hoes. Price, \$4.50.



No. 12 Combined Double and Single Wheel Hoe—Price, \$8.75. Steel Frames, 14-inch Steel Wheels.

Straddles crops till 20 inches high, then works between rows with one or two wheels. The plows open furrows and cover them. The cultivator teeth work deep or shallow. The hoes are wonderful weed-killers.

The greatest hand-cultivating tool in the world. Thousands of Planet Jr. hand-tools (seed drills and wheel-hoes) are used in kitchen gardens. 32 styles—various prices. You can't afford to work without a Planet Jr. Come in and let us prove it to you.

No. 11. "Planet Jr."—As the above but in addition has one pair 4½-inch hoes, two tooth rakes, two 5-tooth rakes. Price, \$11.00.

No. 13. "Planet Jr."—Only equipped with one pair 6-inch hoes. Price, \$6.00. The No. 12 is the most popular tool.

Gentlemen: I bought my Sugar Corn Seed from you this season and furnished the Buena Vista Hotel with the Green Corn, and they claim that it was the finest that they ever had. G. D. BUDDEKE.

Gentlemen: I want to inform you that when all other Lettuce had gone to seed and was burnt up this past summer, I was still hauling fine heads of Lettuce produced from your M. & S. Belvedere Lettuce Seed. Yours truly, JOHN COMES, Fullerton, Md.

COMPLETE PLANET JR. CATALOGUE FURNISHED ON APPLICATION

"Planet Jr." "Firefly" Garden Plow—Very useful for small gardens. Will throw a furrow 4 to 6 inches wide and 1 to 3 inches deep, and deeper by going twice. Furrows for manure or seed can be opened and covered. Chicken raisers find it of great advantage in plowing up the scratching yards. Price, \$2.75.

No. 66. "Planet Jr." Slide Hoe—Price, \$3.50. This light and strong tool is specially adapted to late cultivation when it is desired to work rapidly beneath fallen plant tops or where it is important that the tops of the plants are not buried. Straddles rows or works in between.

No. 65. Slide Hoe—(See Planet Jr. Catalog) Price, \$3.00.

"Planet Jr." Spot and Drill Marker—This new marker is a great labor-saver for market gardeners, experimental stations and seed farms. As a spot marker, it is particularly adapted for onion sets, beets, leeks and celery, cabbage, strawberries and lettuce plants and flowers, etc.

The construction is substantial in every detail. Steel wheels are 13 inches in diameter, with 2-inch face, and have 16 steel-pointed plugs 1½ in. long bolted to the rims. These plugs are readily changed to mark, 3, 6, 12, 15, 24 and 48 inches.

The distance between the wheels is quickly adjusted. Price of five-row, \$13.00; three-row, \$12.00.

Two-Row Spot Marker—This machine is particularly adapted for spotting rows from 12 inches to 30 inches apart where the beds have been made up two at a time with two-row fertilizer or planter. Therefore there is no call for a marking rod. Price, \$5.50.

The One-Row Spot Marker with marking attachment can be used on any single wheel hoe or a double-wheel hoe which has a steel arch. It is intended for use in the home garden where space is at a premium, where uniformity of plants is especially appreciated. Price, complete, \$2.75.

NO. 31 PLANET JR. COMBINED DRILL SEEDER AND WHEEL HOE

This tool suits every pocketbook. The whole combination will delight the suburbanite or equally the growing boy who knows that a certain amount of garden work is to be part of his service. Women, younger or older, will find in this tool a light running wheel hoe that will save them hard work and help much to supply the table with fine vegetables.

The seed drill attachment may be removed in a moment and be replaced as quickly by a tool standard to which are fitted all the various cultivating attachments.

It will sow even a small packet of any garden seed any thickness desired with the greatest precision from ¼ to 2 inches deep. In a narrow row. The index is most simple, eas-

ily set for every kind of seed. The flow of seed is stopped simply by raising the handles, and the tool may be thrown in or out of gear in a moment. The bottom of the hopper is open to full view. Seeds difficult to sow, like salsify, parsley, beets and lettuce, or radishes, beans, peas, turnips, cucumbers, carrots, pickles, spinach, celery, cantaloupes, etc., are handled perfectly. It holds one quart. Price of

No. 31 Seeder and Wheel Hoe, complete, \$8.50.

No. 32 Seeder only, \$6.00.

No. 33 Wheel Hoe only, \$3.75.

No. 4 "Planet Jr." Combined Mill and Drill Seeder, Wheel Hoe, Cultivator and Plow—Price, Complete, \$13.25 —As a seeder only (No. 4D) \$10.75.

Soon pays for itself in the family garden as well as in larger acreage. Sows all garden seeds (in drills or in hills), plows, opens furrows and covers them, hoes and cultivates quickly and easily all through the season.

No. 25. "Planet Jr." Combined Hill and Drill Seeder, Double Wheel Hoe, Cultivator and Plow. Holds 2½ quarts. Weight complete, 59 pounds. It combines in a most practical way the "Planet Jr." No. 4 Drill and No. 12 Double Wheel Hoe.

Equipment: One pair of 6-inch hoes, two pairs of cultivator teeth, two plows, two leaf guards. Price, \$16.00.

No. 2 "Planet Jr." Seeder. Most simple, no agitator belts or gearing to injure seeds, very strong and easy to set. Price, \$9.00.

No. 25 "Planet Jr." Seeder and Wheel Hoe

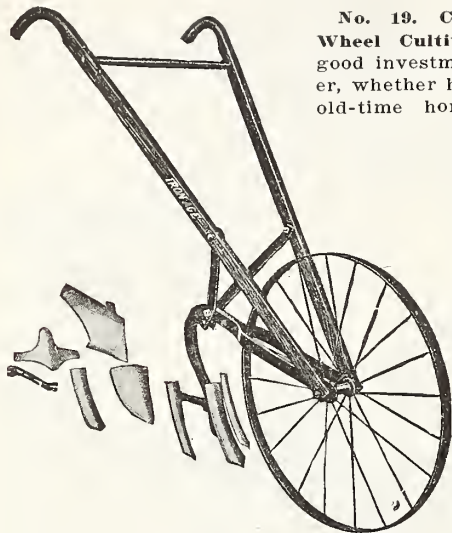
"Planet Jr." Grass Edger—Price, \$7.00. Extreme neatness is the great secret of attractiveness in grounds surrounding a house. The "Planet Jr." Grass Edger assists wonderfully in producing this effect. It will edge either straight or curved work, paths, drives open borders or flower beds, doing the work well and rapidly when ground is in order, as after rain.

If you are a farmer, trucker, orchardist, or suburbanite with a kitchen garden, there is a "Planet Jr." made for your special need. You can't afford to work without a "Planet Jr."

Gentlemen: I think it may be of some interest to you to know that I have had wonderful results with your pure culture Mushroom Spawn.

Most respectfully,
MRS. J. J. GEORGE, Long, Green, Md.

Gentlemen: I have used your Parcel Post Egg Crates and have shipped by Parcel Post exclusively and find them satisfactory.
Z. JOHNSON, Morganza, Md.



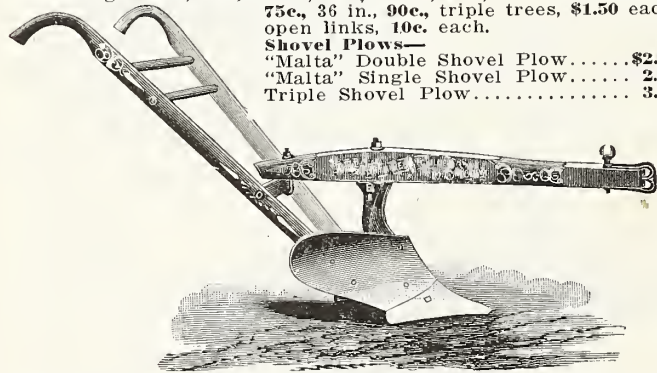
No. 19. C. Iron Age Single Wheel Cultivator and Plow—A good investment for any gardener, whether he is an amateur, an old-time home gardener or a market gardener; but is especially recommended to the man who has never tried any and wants a low-price tool to begin with. **Price, complete, \$4.00.**

We can furnish all kinds of Farm Tools, Mowers, Rakes, Harrows, Spreaders, Seed Drills, etc., also repairs for same. Catalogues and prices furnished on application.

PLOWS, CULTIVATORS, REPAIRS, ETC

Single Double and triple Trees—Made of White Oak, painted. 28 in. single tree, 40c., 30 in., 50c., 32 in., 60c., 34 in. double tree 75c., 36 in., 90c., triple trees, \$1.50 each, open links, 10c. each.

Shovel Plows—
 "Malta" Double Shovel Plow.....\$2.50
 "Malta" Single Shovel Plow..... 2.25
 Triple Shovel Plow..... 3.00



Oliver Pattern Wood and Steel Beam Plows—In fit, quality and finish, guaranteed the equal of the best. List price for Oliver Pattern Plows and Repairs:

	Wood Beam Plow	Steel Beam Plow	Shares	Slip Shares	Lands	Mould-boards	Wood Beams
No. A	\$6.00	\$7.00	\$0.25	\$0.30	\$0.55	\$1.65	\$1.75
No. B	8.75	9.50	.30	.35	.75	2.15	1.75
No. 10	10.00	11.00	.30	.40	.90	2.75	1.75
No. 13	11.00	12.00	.35	.45	1.00	3.00	1.75
No. 19	12.50	13.50	.45	.55	1.10	3.50	2.00
No. 20	13.50	12.50	.45	.55	1.10	3.50	2.00
No. E	14.00	14.00	.50	.60	1.10	3.75	2.00
No. 40	14.00	14.00	.50	.60	1.10	3.75	2.00

In ordering, mention "Wood" or "Steel" beam, right or left-hand.

Prices for plows include extra Share and Wrench. The following are extra: Wheel, complete, \$1.25; Jointer, complete, \$2.50.

We can also furnish the "Syracuse" and other leading plows and the Repairs. Prices will be furnished on application.

CULTIVATOR TEETH AND REPAIRS

	Price		Price
Diamond Point, 1 1/2 in...	\$0.10	Horse Hoe Steels, R. & L., each	\$0.25
Diamond Point, 2 in.....	.11	Turn Shovels, R. & L., each	.20
Diamond Point, 2 1/2 in....	.11	Cultivator Clamps	.35
Diamond Point, 3 in.....	.12	Set Screw Cultivator Clamps	.30
Diamond Point, 4 in.....	.14	Sweeps—8 in., Plt. Jr....	.38
Oval or Jersey	.12	10 in., Plt. Jr.....	.44
"Planet Jr.," 7-inch Hind Shovel	.32	12 in., Plt. Jr.....	.50
"Planet Jr.," 8-inch Hind Shovel	.35	15 in., Plt. Jr.....	.55
Frame and Teeth Bolts..	.03	18 in., Plt. Jr.....	.68
		Cultivator Handles, Complete	1.00

"PLANET JR.," CULTIVATOR TEETH

	Price		Price
1 1/4 x 8-in. Steels.....	\$0.12	1 1/4 x 10-in. Steels.....	\$0.1
1 3/4 x 8-in. Steels.....	.13	1 3/4 x 10-in. Steels.....	.1
2 1/4 x 8-in. Steels.....	.14	2 1/4 x 10-in. Steels.....	.2
3 x 8-in. Steels.....	.16	3 x 10-in. Steels.....	.2
4 x 8-in. Steels.....	.18	4 x 10-in. Steels.....	.2

PLANET JR. ONE-HORSE TOOLS NO. 100 PLANET JR. PLAIN CULTIVATOR

For 1917 we offer a new plain cultivator with the object of filling a definite need where lands are light or where farming is done on a modest scale. The Planet Jr. No. 100 Plain Cultivator is the lightest yet strongest known, and one of the best tools we have ever been able to offer. It is the result of long experience on the farm and of careful manufacture. It weighs but 42 lbs. It will stand almost all kinds of hardship and do beautiful work under adverse conditions. Equipment: Five 3x8-inch cultivator steels. Price less wheels, \$4.75. Fig. 1.

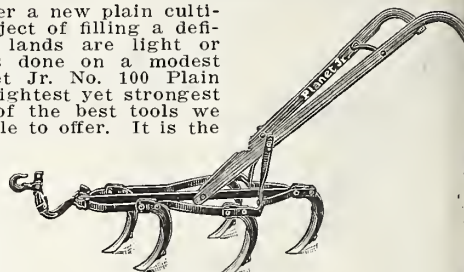


Fig. 1

New Market—5-tooth cultivator, extra strong tool, less wheel, \$3.00, with wheel, \$3.50.

No. 4. "Planet, Jr.," Horse Hoe and Cultivator—This tool is low in price, strong and simple. It is the modern cultivator for either garden or field use, for furrowing, covering and cultivation, being adjustable to these several purposes. Furnished with or without the wheel. Price with steel wheel, \$8.75, without wheel, \$7.50.

No. 4. "Planet, Jr.," Plain 5-tooth Cultivator—This popular tool has been much stiffened and improved by new patent braces and expanders. Price with steel wheel, \$7.00, without wheel, \$5.75.

No. 9. "Planet, Jr.," Horse Hoe and Cultivator—Identical with the above, but, has lever expander. Price with steel wheel \$10.00, without wheel, \$8.75.

No. 10. The Great New "Planet, Jr.," Combination Farm and Garden Horse Hoe, Cultivator, Furrower, Plow and Vine Turner—Equipment: three 3x8 inch cultivator teeth, one pair 6-inch hillers, one plow attachment, one 15-inch fingered sweep, one 10-inch furrower, one vine turner, lever expander and lever wheel. Price complete \$15.00.

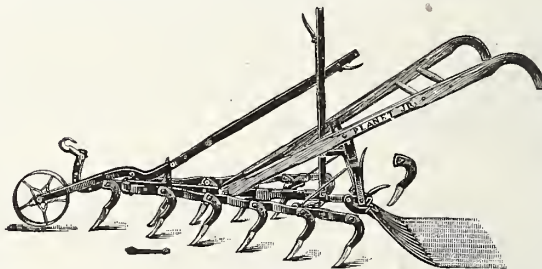
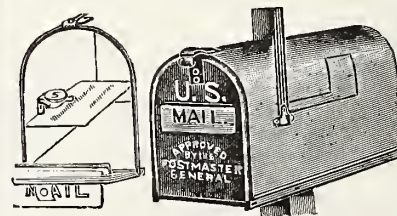


Fig. 11

twelve chisel-shaped teeth do such thorough work, and because the tool is so convenient, durable, strong and complete. This tool expands to 32 inches and contracts to 12 inches. Price complete as illustrated \$11.50, less pulverizer, \$9.50, less pulverizer and wheel \$7.75. Plain without lever expander or wheel, \$6.25.

RURAL MAIL BOXES

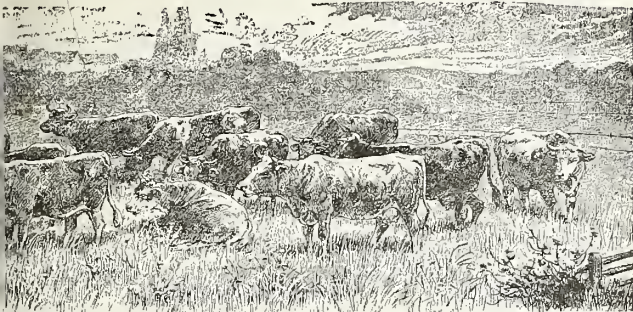


22. Gauge Galvanized Steel, without Inner Galvanized Box; Box has a Letter and Coin Holder for Mailing Letters when not supplied with stamps; Reinforced Roller Ends; Drop in End of Box for Depositing Mail without Unlocking; Red Signal raised by Mail Carrier to show that he has deposited mail in the Box. Price, \$1.00. Parcel Post weight 8 lbs.

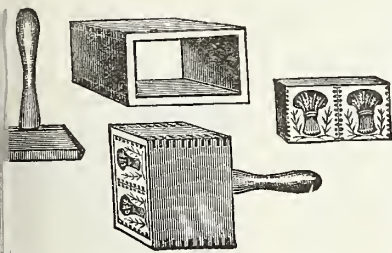
HOUSE LETTER BOX NO. 10

Oxidized Black Enamel, equipped with 2 keys and Paper holder, very attractive. Price, \$1.00. Parcel Post weight 2 lbs.

REQUISITES FOR THE STABLE AND DAIRY



ALTO. PATTERN HAND MADE BUTTER PRINT



This Butter Print is hand made out of solid hardwood, and is put together with brass screws, making it indestructible. Being a two-piece print makes it very handy to use. $\frac{1}{2}$ lb. Sheaf of Wheat Print \$1.00, weight 1 lb. 1 lb. Sheaf of Wheat Print \$1.50, weight 2 lbs. $\frac{1}{2}$ lb. Special Print, Carved with Initial \$2.00, 1 lb. Special Print, Carved with Initial \$2.50, up to 5 letters, over that every letter 10c. extra.

Butter Printers— $\frac{1}{2}$ lb. size, round or square 25c. each. eight 1 lb.

SEELEY PATTERN BUTTER PRINTER

Furnished with sheaf of wheat. Movable block. $\frac{1}{2}$ lb. 60c. eight 1 lb. 1 lb. 75c. Weight 2 lbs.

LADLES AND SPADES

4x12 Butter Spade, 15c. No. 1 Butter Ladle, 25c.

POLISHED MAPLE BOWLS

Bowls 15 inches, 50c.; bowls 17 inches, 75c.; bowls 19 inches 00.

Butter Boxes—These boxes are iron bound at the edges and pped at the corners. An ice box is fitted in the centre, which can be removed at will and the space utilized. Prices in next column.

$\frac{1}{2}$ -lb. prints.....	\$4.50	20-lb. prints.....	\$3.75
$\frac{1}{2}$ -lb. prints.....	5.25	30-lb. prints.....	4.25
$\frac{1}{2}$ -lb. prints.....	5.50	40-lb. prints.....	4.75
$\frac{1}{2}$ -lb. prints.....	6.00	56-lb. prints.....	5.00
$\frac{1}{2}$ -lb. prints.....	6.50	80-lb. prints.....	5.50
$\frac{1}{2}$ -lb. prints.....	7.00	96-lb. prints.....	6.00

Lafayette Butter Printer and Table—Either pound or half-pound size, with table, \$15.00; without table, \$10.00. Initial or monogram, \$1.50 extra.

Parchment Butter Paper—Cut for pound and half-pound units. Price 25c. lb. Special price on quantities.

Wells, Richardson & Co.'s Butter Color—The best butter or on the market. Small bottle colors 500 lbs., 25c.; large titles, 50c. and \$1.00.

Prices subject to change without notice.

HORSE AND CATTLE TONICS AND MEDICINES



Pratt's Animal Regulator is a regulator, digestive and mild tonic. The ingredients consist of pure medical roots, herbs and barks, carefully blended in the exact proportions necessary to gently but surely act on the blood, bowels, liver and digestive organs of horses, cows, sheep and hogs. It causes perfect digestion.

Ordinarily a great quantity of food given to stock is wasted on account of imperfect assimilation. Pratt's Animal Regulator stops that at once. The worst run-down animal can be given Pratt's Animal Regulator according to directions, and an improvement

will be seen almost at once. Pkg. 25c. and 50c., bags 75c. and \$5.00. Parcel Post weight 2, 7, 12, 25 lbs., respectively.

Dr. Hess' Stock Tonic—25c. and 50c. pkg. Parcel Post weight 3 lbs. and 7 lbs.

Pratt's Worm Powder—For destroying worms in horses, ws, hogs and sheep. 50c. box. Weight 1 lb.

Pratt's Liniment—For man or beast. 25c. bottle. Liquid.

Pratt's Healing Ointment—For man or beast. 25c. box. Parcel Post weight 1 lb.

Pratt's Healing Powder—For harness galls, 25c. Parcel Post weight 1 lb.

Cal-Sino Restorative Powder for Horses—Lessens and expels clogged catarrhal and stagnant waste matter. Price, 50c. Parcel Post weight 2 lb. 25 lbs., \$4.00.

Cal-Sino Aperient—For dairy cows or cattle to be fattened—it cannot be excelled. Price, 25c. Parcel Post weight 2 lbs. 25 lbs., \$4.00.

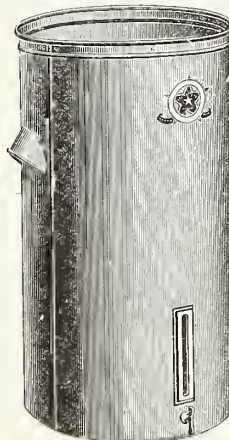
Cal-Sino Restorative for Swine—Disinfects the bowels, expels worms, regulates nutrition and thereby promotes health and flesh production. Pkg. 50c. Parcel Post weight 2 lbs. 25 lbs. \$4.50.

KOW-KURE

Kow-Kure is in powder form, to be given in regular feed. It cures abortion, barrenness and scours, caked udder, removes retained afterbirth, purifies the blood, strengthens the appetite, vitalizes the nerves and prevents disease. It increases the milk. It is a medicine for cows only. Prices, small size, 50c. Parcel Post weight 2 lbs.; large size, \$1.00, Parcel Post weight 5 lbs.

BAG BALM

For all diseases of the cow's udder and teats there is no remedy so quick and certain in its curative powers as **Bag Balm**. It is a soothing, penetrating ointment, especially adapted for all those serious and annoying troubles known as caked bag, cow pox, chapped, cracked and sore teats, bunches, chafing and inflammation of all kinds. **Bag Balm** penetrates through the skin and inner tissues at once, reaching the glands, where it reduces the inflammation, breaks up the bunches and spreads its cooling, softening effect to all the affected parts. This remedy has met with unequalled success, and is found on the most progressive dairy farms in the country. Price, 50c. Parcel Post weight 1 lb.



"Star" Cooler Cream Separator—Two cans, one inside of the other. The inner can is for milk and the outer can for water. Great labor saver. The outer cans are painted and decorated.

No. 000, 14 qts.....	\$3.50
No. 00, 20 qts.....	4.00
No. 01, 25 qts.....	4.50
No. 01½, 35 qts.....	5.00
No. 02, 45 qts.....	6.25
No. 03, 65 qts.....	7.50

"Star" Gravity Cream Separator—Fig. 1. Like the above, but only one can. Made of the very best XXXX tin. The milk is mixed with equal quantity of water. Get cream in two or three hours. Not painted.

No. 0, 24 qts.....	\$3.00
No. 1, 48 qts.....	3.75
No. 2, 88 qts.....	4.50
No. 3, 118 qts.....	5.50

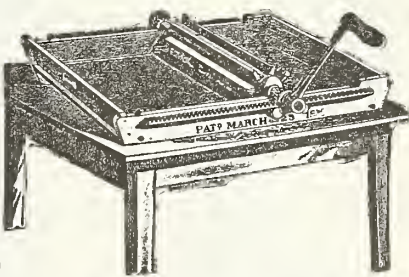
Price on Milk Cans, Pails and other Dairy Supplies on application.

No. 1

Reid's Butter Worker

—This machine acts on the butter on precisely the same principle as a ladle in the hands of a person, but with perfect uniformity and without injuring the grain. Made of the best material; iron parts galvanized, preventing rust.

No. 1—50 lbs....	\$8.00
No. 2—30 lbs....	6.40
No. 3—20 lbs....	5.60
No. 4—10 lbs....	4.80



Dazey Glass Family Churn—Fig. 2. Easy running, easy to clean, produces the finest butter that can be made. No. 30G, churning 1½ qts. \$2.50, No. 40G, 2½ qts. \$3.00.

Dazey Dairy Size

—Tin can instead of glass, like the above. No. 1 D. Z., churning from one to four gallons, \$6.00, No. 2 D. Z., churning from one quart to two gallons, \$4.25. Fig. 3.

Improved Cedar Wood Cylinder Churn

No. 1, 2½ gal.	\$2.25
No. 2, 4 gal.	2.75
No. 3, 7 gal.	3.25
No. 4, 10½ gal.	3.75



Fig. 3

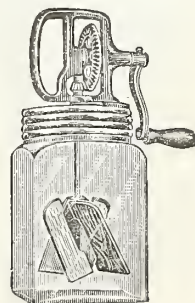


Fig. 2

Rice's Calf Weaner—Fig. 6. Very effective for weaning calves and preventing cows sucking themselves. No. 1, for calves, 40c.; by mail, 45c. No. 2, for heifers, 50c.; by mail, 55c. No. 3, for cows, 75c.; by mail, 80c.

Bull Rings—Gun metal, \$1.25; copper, 25c. Different sizes. Postpaid.



Fig. 6

"NO FLIES HERE"

A liquid designed to protect cows, oxen, horses, mules and all live stock from flies and other insects, and to drive and keep them off.

1 gallon\$1.50
½ gallon85
1 quart50

Conckey's Fly Knockers, 1 gal., \$1.00; 2 qt., 60c.; 1 qt., 35c.

Bitter Lick—For horses and cattle of all kinds. Price of brick, 25c.; doz., \$2.50.

Holders for Bitter Lick Brick—Made of iron and japanned black. Price, each, 20c.; doz., \$2.00.

BITTER LICK
MEDICATED
Salt Brick



The Great Conditioner, Tonic, Digestor & Worm Destroyer



No Flies Here

OILS AND AXLE GREASE

Harness Oil "Eureka"—Pt., 25c.
Cream Separator Oil—Qt., 30c.; 2 qts., 50c.; gal., \$0c.

Harvesting Machine Oil—Gal., 60c.
Gasoline Engine Oil—Gal., 75c.
Household Lubricant Oil—In can with spout ready for use, 15c. and 25c. filled. Empty can like Fig. 4, fits field mowers—15c. each. Parcel Post weight 1 lb.

Mica Axle Grease—Can, 10c., 25c. and 75c.

BLATCHFORD'S CALF MEAL

The best milk substitute. Protein, 24 to 26%; fat 5 to 6%, carbohydrates, 51 to 53%. Prices—25 lbs., \$1.00; 50 lbs., \$2.00; 100 lbs., \$3.75.

Prices subject to change without notice.

BROOMS AND BRUSHES

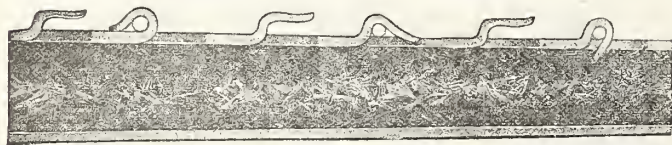
Plain Corn Brooms, extra quality..... \$0.50
Bass Push Broom, 14 in. (see cut)..... .50
Bass Push Broom, 36 in. 1.50



Fig. 4

Owing to the unsettled condition in the wire market, we cannot fix prices at the present time, prices will be quoted on application.

"AMERICAN" STEEL FENCE POST



"American Steel Posts for Poultry Yards"—A 6 foot fence is high enough for the ordinary poultry fence. Putting the posts 2 feet in the ground, this is accomplished by using 8 foot posts. By the use of "American" Steel Posts about the poultry yard sanitary conditions are secured and the poultry is safe from the common pest breeder, the old wood post.

No. 16 Line Post, 6½ ft. 8 foot End Post
No. 16 Line Post, 7 ft. 8 foot Corner Post
No. 16 Line Post, 8 ft. Send for Special Catalog.

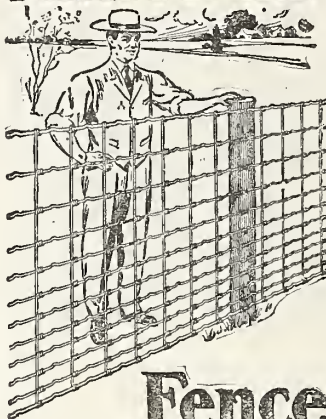
Barbed, Ribbon—Price on application.

Plain and other Wires—Prices on application.

Barbed Wire Staples—Prices on application.

POST HOLE DIGGER—See page 58.

American



The "American" Farm Fence is made of large, strong high-grade steel wires, heavily galvanized. Ample provides for expansion and contraction. Is practically everlasting. Never goes wrong, no matter how great a strain is put upon it. Does not scar or injure stock. Sold in 1 and 20 rod rolls.

726x 6	26 in.	6 in.	7 ir
726x12	26 in.	12 in.	7 ir
832x 6	32 in.	6 in.	8 ir
832x12	32 in.	12 in.	8 ir
949x12	49 in.	12 in.	9 ir
1155x12	55 in.	12 in.	11 ir

FARM GATES AND OTHER SIZES AND STYLES OF STOCK FENCE. Send for Special Descriptive Catalogue and Prices.

Fence

TWO-INCH DIAMOND MESH POULTRY NETTING

Put up in rolls of 150 feet. Galvanized after weaving.

No. 20, 1	foot, 150 running feet....
No. 20, 1½	feet, 150 running feet....
No. 20, 2	feet, 150 running feet....
No. 20, 2½	feet, 150 running feet....
No. 20, 3	feet, 150 running feet....
No. 20, 4	feet, 150 running feet....
No. 20, 5	feet, 150 running feet....
No. 20, 6	feet, 150 running feet....
No. 19, 1	foot, 150 running feet....
No. 19, 2	feet, 150 running feet....
No. 19, 3	feet, 150 running feet....
No. 19, 4	feet, 150 running feet....
No. 19, 6	feet 150 running feet....

Prices furnished on application.

Two-inch Mesh, 1c. per square foot in less than roll lots.

1¼-IN. MESH NETTING

Galvanized after weaving. This wire is small enough to turn baby chicks and pigeons, and much cheaper than the 1 inch mesh.

Prices on 1¼-Inch Wire			
No. 20, 1	foot, 150 running feet....		
No. 20, 1½	feet, 150 running feet....		
No. 20, 2	feet, 150 running feet....		
No. 20, 2½	feet, 150 running feet....		
No., 20, 3	feet, 150 running feet....		
No. 20, 4	feet, 150 running feet....		
No. 20, 5	feet, 150 running feet....		
No. 20, 6	feet, 150 running feet....		

Prices furnished on application.

1¼-inch Mesh, 2c. per square foot in less than roll lots.

1-INCH MESH NETTING—See next page

21 BARS 58 INCH			
20	BARS	53	INCH
19	BARS	48	INCH
18	BARS	43	INCH
16	BARS	35	INCH
13	BARS	24	INCH

AMERICAN FENCE

1-INCH MESH NETTING

One foot, 150 running feet; 2 foot; 3 foot; 4 foot; 5 foot; 6 foot; 6 ft. Less than roll lots, 2½ c. foot.

Poultry Wire Staples, 10c. per lb.

Prices furnished on application.

"American" Poultry and Rabbit Fence—For poultry yards, gardens, orchards and yards; it is a great favorite. 165 running ft., 48 in.; 53 in.; 58 in. Prices furnished on application.

Hardware Cloth—For lining corn cribs, poultry houses, etc., t up in rolls of 100 running feet. Rat and bird proof. 24 in., 36 in., 48 in. Price furnished on application.

EVERLASTIC RUBBER ROOFING



Everlastic Rubber Roofing—The roofing with life. Will not crack, dry out, rust or rot in any climate. It is the most durable for roofing because its waterproofing oils are least affected by the elements. It does not oxidize from exposure to the air. It does not volatilize or evaporate from the heat of the sun. Extreme cold doesn't take the life out of it. Put up in rolls containing 108 square feet, 36 inches wide. Sufficient nails and cement packed in each roll.

1-ply, guaranteed 5 yrs... \$1.75
2-ply, guaranteed 7 yrs... 2.00
3-ply, guaranteed 10 yrs... 2.50

Sample mailed on request. Special price in quantities.

Dry Cell Batteries—Strong and lasting, for ignition work in automobile, motor boats, gas



d gasoline engines, motors, small lights, bells, etc., 40c. each. eight, 3 lbs. each.

"AMATITE" ROOFING

"Amatite" Roofing—It is heavily coated and mineral surfaced at time of manufacture. After simply nailing in place on a roof, it needs no painting; in fact, no care or attention of any kind for years. It is made of roofing materials that have been time-tried and tested in every climate and under all conditions.

Rolls 32 inches wide; 110 square feet, sufficient to cover 10 square feet of roof, allowing 3 inch laps. Cement and nails packed with each roll. Price, per roll, \$2.75.

TAR PAPER—Page 58

FEED CUTTERS, CORN SHELLERS, ETC

Prices subject to change without notice on all Mills and Cutters.

Kokosing Revolving Cutter—This cutter meets a long-felt want for a hand machine at a low priced, strong, durable, well finished and at the same time, one that has good capacity, a wide throat and does its work with ease.

It is made of the best material, and in the very best manner in every particular, is as durable as a power cutter and is finished like a piece of furniture. It has a 11 inch knife, a 11-feed, and can be changed in a moment to cut various lengths. Weight 190 lbs., Price, \$13.50.

Buch's Hand Lever Cutter—Fig. 5. This cutter is simple, durable and low priced. It has a 11 inch tempered curved

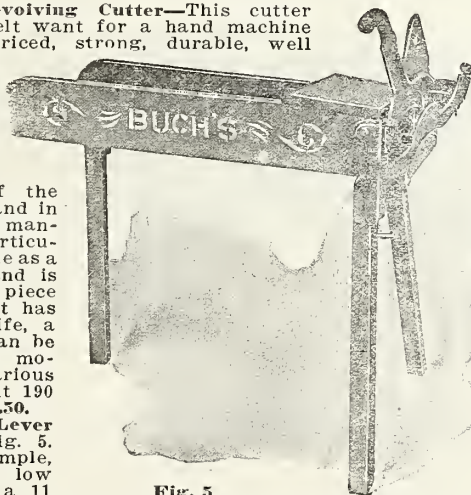


Fig. 5

life which can be adjusted to any length of cut desired up to 10 in.; cuts either green or dry fodder. Price, \$3.50.

Clover Cutter—Price with the balance wheel, \$8.00; with the balance wheel and iron stand, \$10.00.

GREEN BONE CUTTERS AND FEED GRINDERS

No. 5BM—Intended for flocks of 15 to 25 hens. Mounted on iron stand. Cylinder 6 in. diameter, 4 in. deep. Cutter plate has 4 knives instead of 3. Price, \$10.40.

The feed is both automatic and self-governing. Cuts all gristle and meat. Nothing escapes uncut.

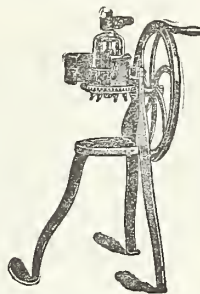


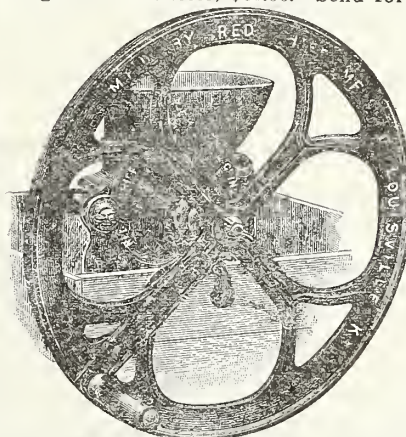
Fig. 7

No. 5C—This machine is exactly the same as the No. 5B, with a crank handle instead of a balance wheel. Capacity not quite equal to 5 B. Weight, 35 lbs. Price, \$6.00.

No. 5B—This machine is exactly the same as No. 5BM, except that it has not the iron stand. The capacity is the same. Weight, 60 lbs. Price, \$8.00.

No. 7—Intended for flocks of 40 to 100 hens. Mounted on strong iron stand with large table for box or pan to receive cut bone. weight, 107 lbs. Cylinder, 7¼ in. in diameter, 5¼ in. deep. Capacity ½ to 1 lb. per minute. Price, \$12.00.

No. 7½—Semi-power Machine, \$16.00. **No. 11**—Comb. Power Cutter, \$26.00. **No. 12**—Small Power Cutter, \$30.00. **No. 15**—Large Power Cutter, \$60.00. Send for Special Catalogue.



No. 5 Red Chief Mill

"Red Chief" Grinding Mill—No. 1. For cracking corn, wheat and other grains. Price, \$3.00. Parcel Post weight, 10 lbs.

"Red Chief"—No. 5. Like above but has fly wheel and larger capacity. Price, \$4.50. Weight, 20 lbs.

"Red Chief" Grinding Mill—No. 10. This mill has greater capacity than the No. 1 Mill, and makes an excellent coffee and spice mill for grocers' or family use, as well as being a very rapid grinder of chicken feed or meal. Weight, 35 lbs.; capacity, 2 to 4 bus. per hour. Price, \$5.50, with stand.

"Red Chief" Corn Sheller—Fig. 6. This sheller is guaranteed to do good work. It is heavy in construction, with patent oval shaped teeth, which are so arranged to shell more rapidly and avoid injuring the grain, thus making it safe for shelling seed corn. Adjusts itself to any size ear. Price, each, \$1.75; weight 12 lbs.

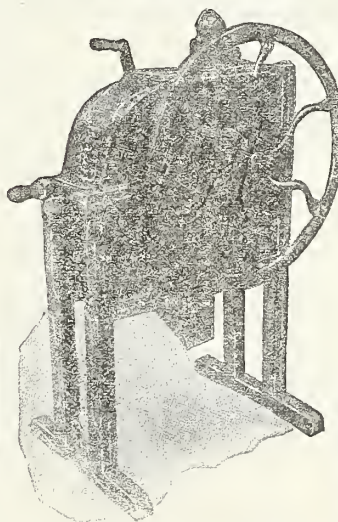


Fig. 7

Buch's Corn Sheller—Fig. 7. This machine will shell perfectly clean, and separate all the corn from the cobs, discharging shelled corn and cobs separately without injuring a grain nor breaking a cob, whether the ears are large or small. Such a thing as choking is unknown. For ease of running, it has no equal. Its capacity is about 25 bushels per hour. Price, \$8.50.

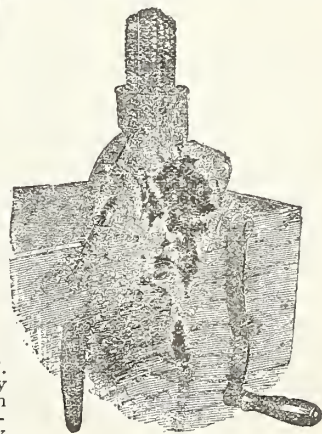


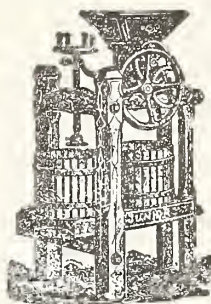
Fig. 6

Owing to the unsettled condition and the scarcity of raw material the prices on all iron and steel goods are subject to change without notice. Prices on wire furnished on application.

CIDER MILLS—WINE, OR BERRY PRESSES

Cider Mills—Made of best quality wood, carefully bolted and finished.

Single Cage Mill—Weight, 140 lbs. Similar to the wine and cider mill described, only it is larger and will take larger apples, and, being a geared mill, will do much more rapid work. Price, \$11.50.



Cider Mill

Junior—Capacity, 2 to 4 barrels per day, \$14.00.

Medium—Capacity, 6 to 8 barrels per day, \$18.75.

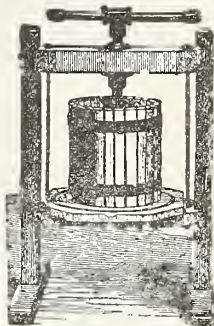
Senior—Capacity, 6 to 12 barrels per day, \$27.50.

Wine, or Berry Presses—Made of best quality wood, carefully bolted and finished.

No. 1—Capacity 1 peck, \$4.25.

No. 2—Capacity, 2 pecks, \$5.00.

No. 3—Capacity, 4 pecks, \$8.00.



Wine Press

RED SEAL TAR ROOFING PAPER

2-ply Red Seal Tar Roofing Paper, per roll of 108 square feet..... \$1.20
3-ply Red Seal Tar Roofing Paper, per roll of 108 square feet..... 1.50

Prices on Roofing Subject to Change Without Notice

Edgewater Farm, McDaniel, Md., August 9, 1916. Gentlemen: I will use no other food except the Park & Pollard's Growing Food and Dry Mash for my fowls. It is better than all others, and I have used all kinds of food for 18 years.

Yours very truly,

GEORGE A. MCFARLAND.

BANNER ROOT CUTTER

Two Practical Machines for Cutting and Preparing Roots, Vegetables for Feeding Poultry and Cattle.

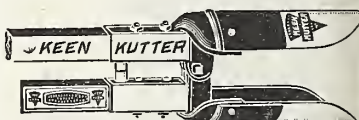
No. 7—Like illustration, exclusively for Poultry. Price, \$5.00.



No. 28—Capacity of hopper 2½ bushels. For shearing lambs and fowls. Hand power use Price, with crank for hand use only, \$15. Price, complete for power hand use, \$

POSTHOLE DIGGER

Highest Grade Crucible Steel Blades, 12 Gauge, 9 in. deep, 5 in. wide, riveted to heavy shouldered Malleable Iron Frame, with closed handle sockets 4 in. deep; select ash handles with graduation marks in ft. burned on, from 2 to 4



“Keen Kutter” Posthole Digger ft.; will dig hole 6 in. in diameter. Price, \$1.75.

We Are Authorized Agents for

GENUINE CYPHER'S COMPANY INCUBATORS PATENTED

MADE IN 3 STYLES—8 DIFFERENT SIZES

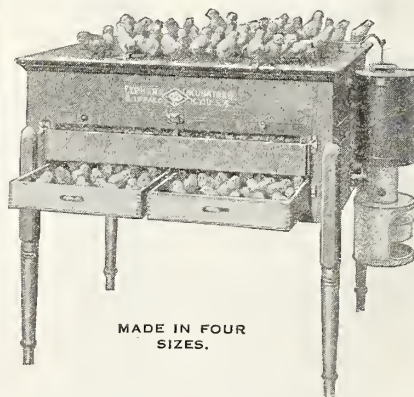
For the season of 1917 we offer our customers the Cyphers Incubator Co.'s complete line of Incubators. These three styles of high-class, guaranteed hatching machines, running through eight different sizes, represent all that is efficient, convenient and reliable in incubator construction. In buying a Cyphers Company Incubator you take no chances.

STANDARD CYPHERS INCUBATORS

The patented principles that have made the genuine Cyphers Incubators deservedly popular throughout the civilized world are retained in our latest pattern machines, as offered to the public for the year 1917. In these machines will also be found the several substantial improvements, fully protected by letters patent, which render the latest-pattern Standard Cyphers most convenient and economical to operate. Better still, hundreds of testimonial reports demonstrate that by the use of these improved machines our customers are able to obtain larger average hatches of strong vigorous and healthy chicks and ducklings than have ever before been reported in the history of the industry.

CYPHERS INCUBATORS are built to hatch and to last. With proper care—the same care you would give a valuable piece of household furniture—a Standard Cyphers will last an ordinary lifetime. They are guaranteed by us to last ten years without repairs. We make this guarantee because they have lasted much longer than this—and are still doing first-class work.

Cyphers Incubators are **rightly priced**—and the prices at which they are sold represent the limit of incubator value. There is nothing fancy, nothing useless about them. Not a penny is wasted in their construction. On the other hand, every cent is put into them that is needed to produce an automatic, dependable incubator—a hatching machine that will give best results **uniformly** and last a life-time. They are built to hatch, and hatch satisfactorily, **anywhere** that an incubator can be used.



MADE IN FOUR SIZES.

If it is your earnest wish to make out of poultry raising all there is in it, what you require in an incubator or a brooder is not a fair-weather machine, nor a toy, but a correctly designed, substantially built, well-insulated standard article, automatic in action, that can be relied on to do uniformly good work throughout the hatching and brooding season no matter what the weather conditions may be—in fact, you need a **first-class**, successful hatching machine.

Poor hatches mean small profits—or none at all. It is not the first fifty chicks you hatch out of each one hundred fertile eggs that will give you your profits—it is the number of good, healthy, vigorous chicks above fifty that must be relied on to make your poultry work a success.

The Standard Cyphers Incubators are built in four popular sizes and at prices as follows: 70 eggs, price complete, \$16.00; 144 eggs, price complete, \$25.00; 244 eggs, price complete, \$37.00; 400 eggs, price complete, \$49.00.

COLUMBIA HOT-AIR INCUBATORS

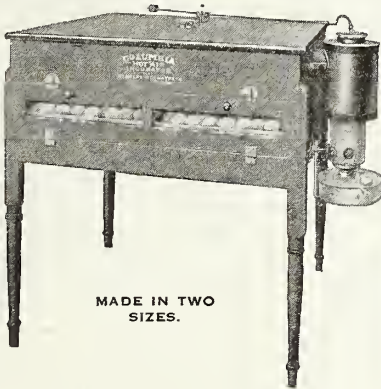
Are built to meet the wide-spread demand for large-capacity up-heated machines that can be sold at **surprisingly low** prices and yet be guaranteed to do high-class work. The incubator case is wood attractively finished in Flemish green, with brass trimmings. Walls are double with air space insulation. Heater is fume-proof, forced draft, asbestos covered and metal band.

Lamp bowl has seams on bottom. Burner is best on market for incubator use and chimney of metal. Lamp support is readily adjustable. **COLUMBIA INCUBATORS** embody the Cyphers Company patented **fusive principle** of heat mixture and uniform circulation and are self-ventilating.

Both sizes of **COLUMBIAS** are equipped with regular Cyphers zinc-and-steel, toggle-joint standard regulating device, the same exactly as has been used on Cyphers Incubators for years with world-wide success.

Ample room exists under each tray as a nursery space for the chicks first to hatch.

COLUMBIA INCUBATORS are both self-ventilating and self-regulating and when operated under normal atmospheric conditions they do not require supplied moisture. Are made in two sizes: 140 eggs, price complete, \$18.00; 250 eggs, price complete, \$25.00. Fully guaranteed.



MADE IN TWO SIZES.

SUPERIOR HOT-WATER INCUBATORS

These machines are exactly what the name says. They are exceptional value for the price and the person who wants hot-water incubator cannot do better than purchase one or more of these machines.



MADE IN TWO SIZES.

The Incubator case is of wood, attractively finished in golden brown, with brass trimmings. Walls are double with air-space insulation.

The boiler is of heavy-weight polished copper and so is the tubular tank, in which there is a forced circulation of water—a decidedly valuable feature that is not secured, as a rule, in hot-water incubators.

Lamp has seamless bottom bowl. Burner is best on market for incubator use and chimney is of metal, constructed without solder.

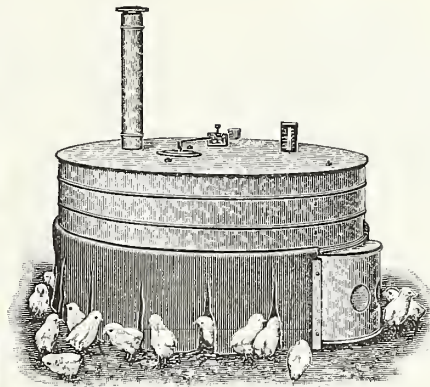
Both sizes of **SUPERIORS** are equipped with the regular Cyphers zinc-and-steel, toggle-joint standard regulating device, the same exactly as has been used on Cyphers Incubators for years.

There is ample nursery space for the chicks first to hatch, furnishing a comfortable "drying off" and hardening place for the early comers.

SUPERIOR INCUBATORS are both self-regulating and self-ventilating and when operated under normal atmospheric conditions they do not require supplied moisture. Are built in two sizes: 65 eggs, price complete, \$13.00; 130 eggs, price complete, \$18.00. Fully guaranteed.

CYPHERS PORTABLE HOVER

We guarantee the Cyphers Portable Hover to be the best brooding device of the kind on the market. It is recommended especially for use indoors in poultry houses, brooding houses, colony houses and large roosting coops. As it is equipped with the same high-grade thermostat as the Cyphers Incubators and the Cyphers Adaptable Hover, it maintains a steady and uniform heat. This latest improved Hover is self-regulating and positively and infallibly automatic in ventilation, preventing the trapping of "dead" air or poisonous gases underneath the curtain. A continuous supply of fresh, warmed air is automatically forced beneath the hover. This air is forced downward slowly, until it finds its way out between the curtains.



This Portable Hover, as its name indicates, can be picked up at any time, all complete, and moved about without hindering its operation. Very convenient for cleaning and moving. Rated capacity, seventy-five newly hatched chicks, or fifty chicks that are ten days to six weeks old. Made throughout (except curtain) of metal, practically indestructible, and will last a life-time with good care.

Price of Cyphers Portable Hover, \$10.00.

CYPHERS ADAPTABLE HOVER

Adapted for Safe and Convenient Use Anywhere that is Suitable for Raising Chicks and Ducklings.

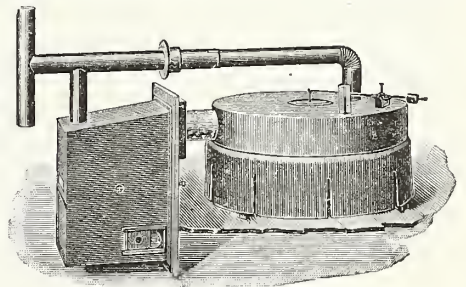
CYPHERS ADAPTABLE BROODING HOVER is self-ventilating and self-regulating—every one bearing the Fire Underwriters' "Inspected Brooder" label; it is used in each of the three styles of individual brooders manufactured by Cyphers Incubator Company for 1917.

The Adaptable Hover is also intended to be used separately as a brooding device in colony coops, in portable houses and in home-made brooders such as goods boxes, piano boxes and organ cases, and can be adapted to other makes of brooders, provided they are twenty-six inches high and of fairly large dimensions otherwise. It is especially recommended for use in continuous brooding houses, containing pens or chick runways side by side.

As the name indicates, this efficient and ingenious device is "adaptable" for use anywhere that chicks can be housed with safety, and it will do satisfactory work under widely varying conditions. It is constructed entirely of non-combustible material, and could be operated without danger of fire if placed in a kindling-wood box filled with shavings.

Cyphers Company claims that this Fire-Proof Adaptable Hover is by far the best device of the kind invented thus far, and we invite the most searching comparison with all other brooder heating systems now on the market. It is only by such comparison that the exclusive features of the Cyphers Fire-Proof Adaptable Hover can be fully appreciated.

Price of Cyphers Adaptable Hover, Complete with Standard Cyphers Regulator, Tested Brooder Thermometer and bearing "Inspected Brooder" label safely boxed, \$10.00.



CICO COAL-BURNING COLONY HOVER

To meet the demand for a low-priced colony hover we offer the Cico Hover, sold complete at \$15.00. It is practical, reliable and serviceable, and is the best colony hover selling at the price. The heater is 24 inches high, has a shaking and dump-grate, and can be filled and regulated without moving hover or dome.

The dome is 50 inches in diameter, and can be arranged to be elevated with cords and pulleys if desired. The Cico Hover will brood 300 to 1,000 chicks, depending on construction of building, and climate. This heater is equipped with automatic regulator.

Price of Cico Hover, complete, \$15.00.

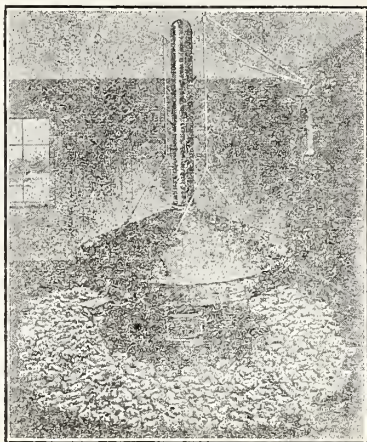
COAL BURNING HOVERS—Continued on next page

CYPHERS COAL-BURNING COLONY HOVER

The latest development in the brooding of chicks. Will brood from 300 to 1,000 chicks in one flock, thereby reducing to the lowest point the time, labor and cost of raising fowls.

THIS HOVER COMBINES THE BEST that twenty years of poultry experience, coupled with more than fifty years of stove-building experience **have accomplished to date.** It is remarkable for its simplicity of design and ruggedness of construction. The fire pot is a one-piece heavy-weight casting of ample capacity. The ash pit and heater base are also cast in one piece—therefore is fire-tight. Automatic regulator is provided if desired—which we recommend for the sake of economy of fuel, also for use in severe weather.

There is nothing about the entire device to give way or break easily or to get out of order. It is as easy to operate as a kitchen range and can be relied upon to do the work for which it is intended.



OUTFIT No. 1—With small Heater and 42 inch dome, without automatic Regulator, shipping weight 150 lbs., capacity 300 to 600 chicks, \$20.00

OUTFIT No. 2—Same as Outfit No. 1, except has automatic Regulator, \$25.00.

OUTFIT No. 3—With small Heater and 60 inch dome, without automatic Regulator, shipping weight 170 lbs., capacity 600 to 1,000 chicks, \$26.50.

OUTFIT No. 4—Same as Outfit No. 3, except has automatic Regulator, \$31.50.

OUTFIT No. 5—With large Heater and 42 inch dome, without automatic Regulator, shipping weight 160 lbs., capacity 300 to 600 chicks, \$22.00

OUTFIT No. 6—Same as Outfit No. 5, except has automatic Regulator, \$27.00.

OUTFIT No. 7—With large Heater and 60 inch dome, without automatic Regulator, shipping weight 180 lbs., capacity 600 to 1,000 chicks, \$28.50.

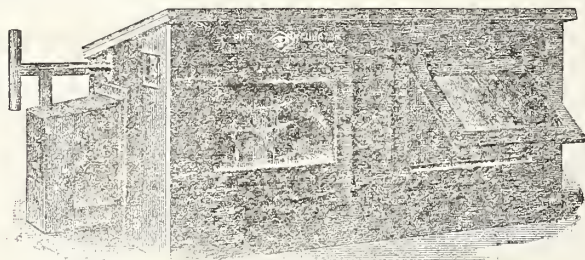
OUTFIT No. 8—Same as Outfit No. 7, except has automatic Regulator, \$33.50.

STANDARD CYPHERS BROODERS

No matter how many chicks you hatch, or how big, lively and hearty they are you must have the right kind of brooding equipment to raise them successfully to market age or for use as layers and breeders.

The Standard Cyphers Brooders are fire-proofed and insurable, and are the most durable, convenient and efficient outdoor brooders thus far invented. They are equipped with the Cyphers Adaptable Hover, which is self-ventilating and self-regulating—you can therefore depend upon an **even, steady** temperature in the hover, and a lively, thrifty growing lot of chicks. They are easily and quickly converted into colony coops for the growing chicks by simply taking out the hover, which is made removable for that purpose. Saves buying a coop for them.

Prices: Style A, 2-Apartment Outdoor Brooder, \$15.50; Style B, 3-Apartment Outdoor Brooder, \$19.50; Style C, 3-Apartment Outdoor Brooder (for cold climates), \$21.00; Style D, 2-Apartment Indoor Brooder, \$14.50.



Cyphers Style B Outdoor Brooder

ELECTRIC INCUBATORS AND HOVERS

The Cyphers Company were pioneers in the field of electric incubation and brooding, and their machines have proved to be the most simple and efficient hatching apparatus ever invented. All parts of the United States and Canada have tested their machines with uniformly successful results.

These Electrobators are built of quarter-cut oak, and as there is no dirt or smell in operating them, they can be conveniently used in the best room in the house. Inserting the plug in an ordinary electric light fixture and switching on the current is all the setting up they need, and in hatching the only labor required is the turning of the eggs. Actual meter tests show the cost of running to be from **50 cents to 90 cents** per hatch. High percentage hatches are the rule, and they are fire-proofed and insurable.



"Electrobator"

CYPHERS ELECTROBATOR, Made in two sizes, finely finished, quarter sawed oak cases. No. 1 Electrobator, capacity hen eggs, price, \$20.00. No. 2 Electrobator, capacity 120 h eggs, price, \$26.00.

CYPHERS ELECTROHOVER, ADAPTABLE—Used in either Indoor or Outdoor Brooders. Easily moved about. Capacity newly hatched chicks. Price, \$12.00.

An Electrically Heated and Regulated Incubator designed expressly for fanciers and poultry keepers who require small hatching capacity. Fire-Proof and bears Fire Underwriter "Inspected Incubator" label. Made in two sizes; No. 1, 60-egg capacity; No. 2, 120-egg capacity.

Cyphers Company "Electrohover"

Is both portable and adaptable. Can be used anywhere, just as shown in picture, provided the room temperature does not go below freezing. In colder temperature—and to save waste of heat—should be enclosed or encased. Is electrically-heated, non-combustible, self-regulating and bears the Fire Underwriters "Inspected Brooder" label as a separate device.



THE PARADISE BROODER

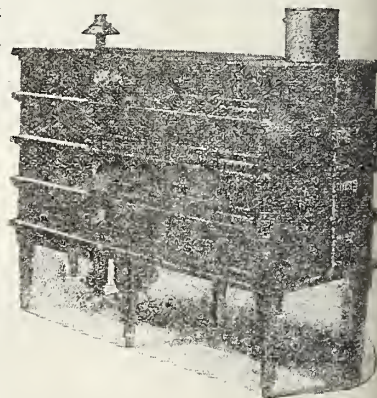
We believe the Paradise One-Lamp Sectional Brooder to be the best indoor brooding device invented thus far as a practical, convenient and economical nursery for newly-hatched chicks and ducklings. It embodies the correct principles of brooding

by chicks and ducklings by artificial means. Heat is furnished in the right way for growing chicks. Plenty of light gets into each section. Ventilation of all parts of this brooder is thorough. There is plenty of room for exercise. Fresh water is easily supplied to each flock of chicks.

Complete brooder has four sections, each section holding two separate flocks of 50 chicks. Total capacity 400 chicks. Means for feeding and caring for chicks are very convenient and chicks are always under control of the operator. One large oil heater provides warmth.

Price, Base Section, \$24.00 Additional Sections (can be added as desired), each, \$16.00.

Four-Section Paradise Brooder, capacity 400 chicks in eight separate lots of 50 chicks each.



THE PEEPY GEM INCUBATOR

The Peepy Gem Incubator is a low-priced, carefully made machine, with patented features. It has been tested by thousands of successful operators, and is not to be compared for a moment with cheap, hot-air machines, as it is constructed with double walls and tops one and one-half inches thick, solidly packed with wool felt. It is constructed of cypress, basswood and poplar, very carefully finished. The door hinged at the bottom and closes snugly against wool felt packing, is one inch thick and fitted with double glass; the legs as shown, are strong and reach to top of case and are fastened with screws; egg chamber is roomy and nursery is provided with

movable bottom for easy cleaning.

It is heated by our patented hot water system, fitted with a ss double wafer end regulator, table top, and has safety up, tested thermometer, egg tester, egg tray and full directions. Ready for instant use. Capacity, 50 eggs. Price, \$7.00.

CYPHERS MAMMOTH INCUBATORS

The Cyphers Mammoth is a fully tested and reliable hatching machine. It was designed and built by men of experience to meet the practical, every day needs of men engaged in all branches of the poultry business where large hatching capacity is required.

The heat regulation takes care of every emergency; ventilation is exact and absolutely under control at all stages of the hatch. Moisture is regulated not by blundering guesswork, but by scientific accuracy.

The Cyphers Latest-Pattern Mammoth provides better circulation of water in the heating pipes, gives more exact control over temperature and hatches more and stronger chicks, ducklings from a given number of eggs than any other mammoth incubator made. **THIS WE GUARANTEE.** All sizes from 4,000 eggs up. Built complete in the factory and shipped in compartments, crated and ready to be quickly set up by anyone who is handy with ordinary tools. More compartments can be added later without changing heater.

CYPHERS SEMI-MAMMOTH—For smaller capacities than 4,000 eggs we recommend the Semi-Mammoth. Heated with oil burner; low in cost. Can be installed in any cellar or suitable room. Sections, heating pipes, ventilation, etc., are exactly as Cyphers Mammoths.

If you are interested in custom hatching, selling day-old chicks, or operating a large poultry plant for any purpose, write today for Special Mammoth Catalogue. Don't attempt to decide this vitally important question until you learn all about Cyphers Mammoth.

CYPHERS LICE PAINT

CYPHERS LICE PAINT is especially prepared as a remedy for red or spider mites which so often infest poultry houses, guinea fow houses, living in the cracks and crevices and about the roosts and nests.



uses which are infested with mites.

Price, 1 qt. can, 35c.; half gal. can, 60c.; 1 gal. can, \$1.00.

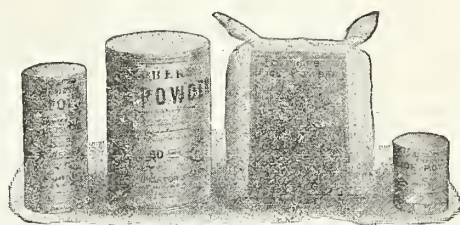
CYPHERS LICE POWDER

Is Body Lice on Chicks and Fowls. Easily Applied from our Perforated "Shaker" Boxes in which it is sold.

Cyphers Lice Powder is claimed by us to be the strongest preparation on the American market for the purpose. It is warranted to be a lice-killer, not a lice-driver. It is guaranteed not to contain carbolic acid or other chemicals

which will damage the plumage of fowls or injure the fertility of the eggs. This Powder—put up, as a rule, in substantial paste-board boxes, with perforated tops—is clean to handle, easy to apply sure in effect, and can be used in the nests of sitting hens without injuring young chickens. For lice on cattle and horses, and fleas on dogs, Cyphers Lice Powder is an effective remedy. As an insect powder it positively has no superior. A trial package will convince you of its value.

PRICE OF CYPHERS LICE POWDER—15-oz. box, 25c., parcel post weight, 2 lbs.; 48-oz. box, 50c. parcel post weight, 4 lbs.; 100-oz. pkg., \$1.00, parcel post weight, 7 lbs.



CYPHERS SULPHUR FUMIGATING CANDLE

A Microbe and germ killer. Also lice and mite destroyer. Is put up in original form with wick ready for the match.

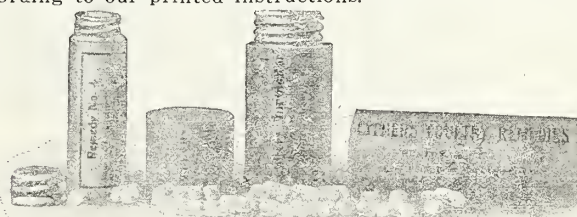
These Candles are easy to light, easy to extinguish and safe to use. The improved construction of these candles make it unnecessary to use a tin dish such as is required for most other sulphur candles on the market. Price, each, 10c.



Parcel Post weight 6 oz.

CYPHERS REMEDY NO. 4 FOR CHICK DIARRHOEA

This remedy, in the treatment of diarrhoea in chicks and cholera in adult fowls, has proved very effective as an antiseptic, sedative and an instigant to the mucous membrane of the crop, gizzard and intestines, relieving at once all irritability and changing the character of the intestinal secretions. It will cure the most obstinate cases if given in the early stages and according to our printed instructions.



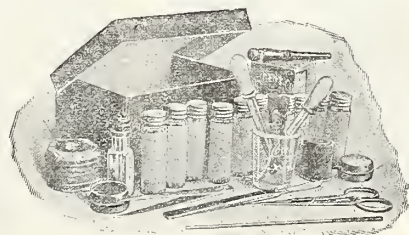
Price, per vial, 25c., postpaid, 27c.; large vial, \$1.00.

Liquid can not be sent by Parcel Post. Always include right amount for postage with remittance when goods are to be sent by Parcel Post.

CYPHERS POULTRY, MEDICAL AND SURGICAL CASE

This popular Case combines a surgical outfit and accessories as are found helpful in the treatment of injuries, and combating diseases, epidemics, etc., also the ten remedies as contained in the Cyphers Medical Case.

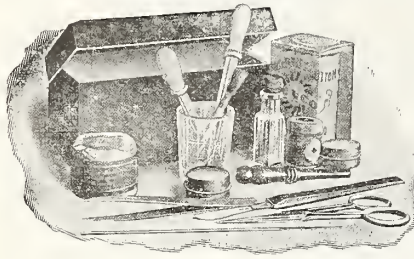
Price of Cyphers Poultry Medical and Surgical Case, Complete, postpaid, \$3.00.



CYPHERS POULTRY SURGICAL CASE

When fowls are worth from \$5.00 to \$500 each it pays to save them. This surgical case will prove valuable to the poultryman in time of needs.

The Cyphers Poultry Surgical Case contains the following:



One Scalpel or Surgical Knife, One Pair Forceps, or Tweezers, One Pair Scissors, One Medicine Measuring Glass, One Medicine Dropper, One Roup Syringe, One Iodine Bottle with glass brush, One Camels Hair Pencil, One Box of Cyphers Remedial Ointment, One Box of Cyphers Disinfecting Tablets, One Roll of Rubber Adhesive Plaster, One Package of Absorbent Cotton, One Ten-Yard Gauze Band-

age, One Caustic Pencil, One Applicator.

All instruments are of good quality steel, nickel-plated and carefully finished. The entire outfit is put up in a handsome, strong, cloth-covered box.

Price of Cyphers Poultry Surgical Case, Complete, \$2.00, postpaid.

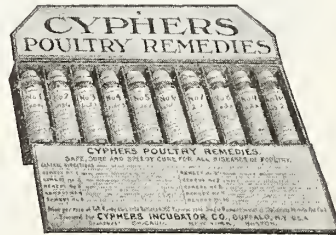
CYPHERS POULTRY REMEDIES

EQUIPPED with the Cyphers Poultry Remedies, the fancier or poultryman will be prepared to ward off any disease that may attack his flocks. Each bottle is labeled, showing dosage and the diseases which its contents will cure or prevent.

WHAT THE TEN REMEDIES ARE TO BE USED FOR

REMEDY NO. 1—For bronchitis and similar diseases in which rattling in the throat is a prominent symptom. **REMEDY NO. 2**—For colds, when accompanied by snuffles, sneezing and watery discharges from eyes and nostrils. **REMEDY NO. 3**—For Chicken Pox. Also cures chronic catarrhal colds. **REMEDY NO. 4**—For diarrhea and cholera. Will cure the most obstinate cases in either adult fowls or chicks. **REMEDY NO. 5**—For chronic roup and all forms of canker. Also useful in vent gleet. **REMEDY NO. 6**—For indigestion and liver diseases. Is a remedy for sour crop, constipation, loss of appetite and some forms of crop bound. Will cure limberneck if used in first stages of the disease. **REMEDY NO. 7**—For ulcer, diseases of the skin and nervous affections. Starts hens laying after molting. **REMEDY NO. 8**—For Rheumatism and Cramps, accompanied by swollen legs and lameness. **REMEDY NO. 9**—For worms and other intestinal parasites. **REMEDY NO. 10**—Diseases of the egg organs. Prevents soft-shelled and blood-streaked eggs. Will correct sterility and impotence, thus insuring fertile eggs.

Price of single vials, 25c. each; postpaid, 27c. each. Order separate vials by number.



CYPHERS ROUP REMEDY

GUARANTEED

CYPHERS ROUP REMEDY is the best remedy for roup in all forms. It is thoroughly reliable and always uniform in quality and strength. Prevents and cures common colds and for the cure of canker is without an equal. Pigeon growers as well as poultrymen will find this remedy of special value in the cure of all forms of canker in poultry and pigeons.



CYPHERS ROUP REMEDY is used by simply dissolving the remedy in the drinking water. In all early stages the sick fowls take their medicine in this easy manner. One small-size package will make 25 gallons of roup medicine.

Prices: Small size package, 25c., postpaid, 27c.; medium size, 50c.; large size, \$1.00.

CYPHERS FULL-NEST EGG FOOD



FULL-NEST EGG FOOD is not only egg-producer, but it is also a standard condition powder for all ages of poultry. Besides being an unexcelled egg-producer it is a concentrated meat food possessing tonic and properties which prompts good health and fine condition. It stimulates and invigorates; it also builds up the system and helps to keep it up. Full Nest Egg Food will help your bird through their molt, make the feathers develop normally, and induce a high state of perfection in plumage. Hens begin laying sooner after molting where this egg food is used.

For growing chicks Full-Nest Egg Food is the best substitute for insect life. The Food contains in a highly concentrated

form the principal food elements supplied by bugs and insect thus making it an ideal substitute.

Prices: 42-oz. pkg., 25c., Parcel Post weight, 3 lbs.; 25-lb. pail, \$2.25.

CYPHERS ANTI-FLY PEST



One application of Cyphers Anti-Fly Pest will instantly relieve horses and cattle from the annoyance of flies, mosquitoes, gnats and many other insects for at least twenty-four hours. Its effect on cows truly wonderful; gives them chance to feed in peace and quiet, thus insuring an increased quantity of milk for the food consumed.

Anti-Fly Pest protects mostly by evaporation—the fumes do the work.

Cows sprayed with Anti-Fly Pest will produce twenty-five per cent more milk. One gallon of Anti-Fly Pest is sufficient to

treat three hundred cows.

Prices: Half gal. can, 50c.; one gal. can, 85c.; five gal. can \$3.50.

CYPHERS NAPCREOL (Disinfectant)

Cyphers Napcreol is a highly concentrated preparation which can be made ready for immediate use by simply mixing with required amount of water. Is highly valuable for the disinfection of poultry houses, stables, dog kennels, toilets, sinks, or any place where a germicide and deodorant is needed. One gallon of Napcreol makes 50 gallons of disinfectant of sufficient strength to do the work.

Price: 1-qt. can, 50c.; half-gal. can, 85c.; one-gal. can, \$1.50.



BOSTON DRY FOOD HOPPER



We believe this food hopper to be the best device of the kind on sale for the use of thrifty, up-to-date poultry-raisers. It combines the favorable feature of being rat-proof with great economy of food. With this hopper fowls can not waste food, yet food is always accessible, always in sight. It can not clog, is easily refilled when empty, and is easy to clean and keep clean. The construction of this hopper is especially simple, being made of galvanized sheet iron. It is practically indestructible, and will last a lifetime. Made in four sizes.

Large Size, Price, \$1.00

Large size for dry food, holds ½ bu., P. P. weight 5 lbs. \$1.00

Small size for beef crap, grit, etc., holds 1 pk., P. P. wt. .50

4 lbs. 1.25

Long chicken size, holds ½ pk., P. P. weight 5 lbs. 1.25

Short chicken size, hold ½ pk., P. P. weight 3 lbs.90

BOSTON DRY FOOD HOPPER—Continued



Long Chick Size, Price, \$1.25

CYPHERS DRY FOOD HOPPER

Economical and Sanitary Self-Feeding Device for Use with Dry Food.



Price, each, 75c.

THE CYPHERS SELF-FEEDING HOPPER is machine made, out of heavy galvanized iron, and has no compartments, a large one for grain mixtures, holding about 6 quarts, and a small one for Meat rap, holding about three quarts.

The trough of this hopper is high enough to prevent waste, and at the same time allows access to the food. The hopper is provided with a hinged cover, which protects the grain at times from moisture and filth. It is also supplied with a strong handle for convenience in filling and hanging. Parcel Post weight 3 lbs.

CYPHERS GRIT AND SHELL BOX



Made of best grade of galvanized iron. Has three compartments—for grit, oyster shell and charcoal. Cover or lid on a slant prevents fowls roosting on the box and keeps contents clean. It is necessary on every well equipped poultry plant. Made in one size only. Parcel Post weight 3 lbs. Each, 60c.

SANITARY CHICK SERVER

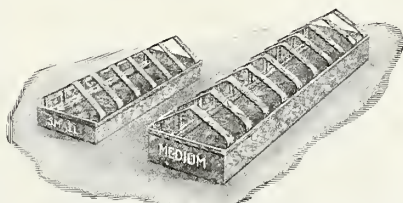


Price, 25c., each.

This Popular Chick Server is used extensively for supplying food and water to small chicks, both on range and confined in brooding houses, etc. Consists of two parts only, is easy to use and keep clean. Made in one size only. Parcel Post weight 1 lb.

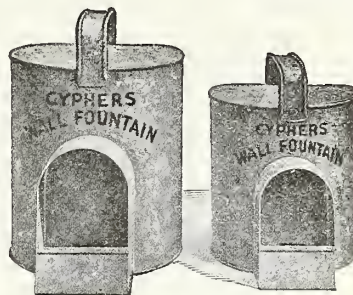
CYPHERS COMBINED FOOD AND WATER HOLDERS

The combined food and water dishes are very convenient for watering or feeding chicks, ducks and for feeding mash of any kind; also steamers or dry alfalfa, or ver. Where this protected receptacle is used saving of 15 to 25 per cent in food stuff may be counted on. The guard lifts out of the pan, making the pan easy to clean. They are made of heavy galvanized iron in three sizes.



Prices:
Small size, Parcel Post weight 1 lb., each..... \$0.40
Medium size, Parcel Post weight 2 lbs., each..... .55
Large size, Parcel Post weight 3 lbs., each..... .80

CYPHERS KEEP-CLEAN WALL FOUNTAIN



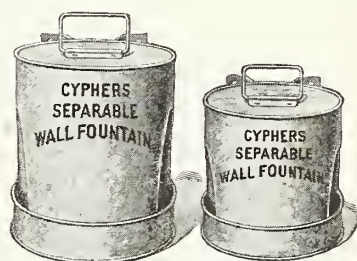
The construction of these fountains prevents the water from getting dirty and full of litter. A galvanized iron hood keeps foreign matter from dropping into the water, yet allows fowls to drink water readily. They are very convenient to handle, and can be hung up on the wall above the floor, the back of the can being flat. They will not break by freezing.

Prices: One-gallon size, Parcel Post weight 2 lbs., each, 60c.; two-gallon size, Parcel Post weight 3 lbs., each, 75c.

CYPHERS SEPARABLE WALL FOUNTAIN

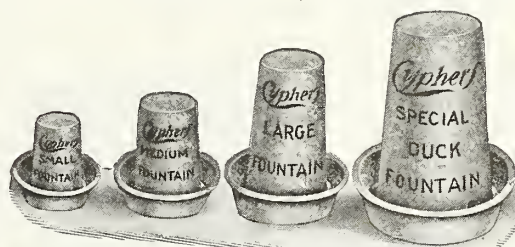
This is a sanitary and labor-saving wall fountain that can be opened or separated for cleaning and fitting. Has handle for carrying and has bracket at back for hanging up. Drinking spaces on the sides help to keep water clean and free from litter. Made of heavy galvanized iron in five-quart and nine-quart sizes.

Prices: Five-qt. size, Parcel Post weight 3 lbs., each, 75c.; Nine-qt. size, Parcel Post weight, 4 lbs., each, \$1.00.



CYPHERS SEPARABLE DRINKING FOUNTAIN

These drinking fountains meet the first essential for healthy fowls—they are easy to keep clean. They are made of heavy galvanized iron, by the use of steel dies, and will last a long time with ordinary usage. These fountains are made in four sizes. The smaller size (1 quart) is designed for use in brooders, nurseries, etc. The medium size, two quart, is for large chicks and ducklings, or for small or medium sized flocks of fowls. The 3 1/2 quart size is designed for large chickens, ducklings, and adult fowls. The larger size holds two gallons, and is used extensively by breeders of ducks and large flocks.

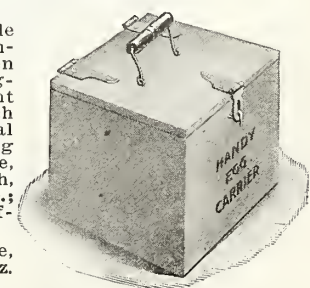


Prices:
Small size (1 qt.) for chicks, P. P. weight 1 lb., each..... \$0.20
Medium size (2 qts.) for growing chicks and ducklings, P. P. weight 2 lbs., each..... .30
Large size (3 1/2 qt.) for fowls, P. P. weight 2 lbs., each.. .40
Special duck size, 2 gal., each..... .65

HANDY EGG CARRIER

These boxes are strongly made of 3/4 in. white pine, and are finished with a gloss coat of green paint. The cover is securely hinged and is provided with a patent fastener and a neat handle. Each carton has a set of substantial cardboard fillers and dividing boards. **Prices:** Three dozen size, each, 50c.; five dozen size, each, 65c.; eight dozen size, each, 80c.; twelve dozen size, each \$1.00; fifteen dozen size, each, \$1.20.

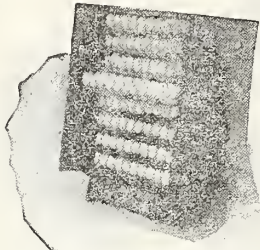
Parcel Post weight: 4 doz. size, 4 lbs.; 5 doz. size, 5 lbs.; 8 doz. size, 8 lbs.; 12 doz. size, 10 lbs.



CYPHERS REVOLVING EGG CABINET

EGGS INTENDED FOR HATCHING should be turned daily, especially as warm weather approaches. The warmer the temperature, the more necessary it is that they be turned. Eggs for market should be turned every two or three days, if they are to be kept any length of time.

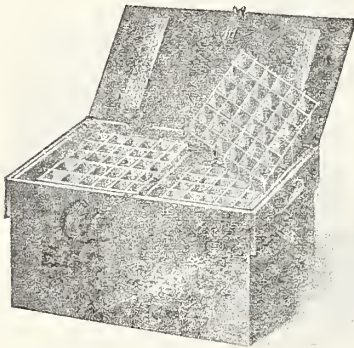
These **REVOLVING EGG CABINETS** have supplied a wide-spread need among poultrymen who save eggs for hatching and for table use. Each egg is held in place by a pair of steel wire clips and the egg racks are removable for filling.



Revolving Egg Cabinet

Prices: 150 egg size, \$4.00; 288-egg size, \$6.00; 560-egg size, \$9.00.

EGG CASES FOR SHIPPING MARKET EGGS



THESE CASES are made from well-seasoned lumber, dressed on both sides, and we guarantee their strength and durability. The cover is fitted with double hinges, so that it may be doubled back without injury, and has a strong spring catch by which it may be locked when closed down.

The partitions and fillers supplied by us with these cases are manufactured from A-1 extra heavy cardboard and will stand three times the usage as will the ordinary filler. One size only, capacity 30 dozen.

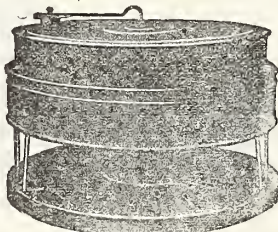
Price: Complete, including fillers, \$1.50.

THE CYCLE HATCHER

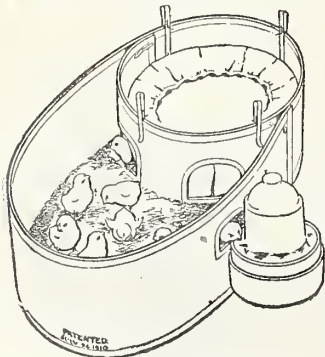
"Philo" Cycle Hatcher is designed to take the place of the hen and the large clumsy incubators, and to carry out the development of the embryo chick in the egg to a living, healthy bird by a device approaching nearer to the stage of perfection in construction, operation and control of the moisture than anything on the market to date. Send for special catalogue on "Philo" goods.

Cycle Hatcher, complete with Lamp, Thermometer, etc. Price, \$6.00.

Brooder Hatcher—Complete with Lamp, Thermometer, etc., \$8.00.



Cycle Hatcher



The "Lullaby" Brooder

"Philo" Galvanized Iron Brooder—One large size, \$2.50, two large size \$4.75, four large size \$9.25, one medium size \$2.00, two medium size \$3.75, four medium size \$7.25, one small size \$1.50, two small size \$2.75, four small size \$5.25. Set of three Galvanized Iron Brooders, one of each size, \$5.00.

"Philo" Educator Brooders—Complete. One \$5.00, two \$9.50, four \$18.00.

The "Lullaby" Brooder is positively the most simple brooder on the market, and yet it is built on lines true to nature, which insures the raising of nearly every chick entrusted to its care. Capacity 25 chicks. Price, complete, \$1.00; weight 2 lbs.



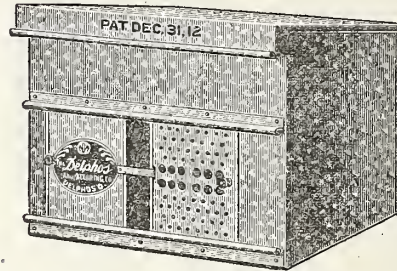
Fireless Brooder No 8

No. 8 and 10 Mandy Lee Fireless Brooders—California red wood, good flannel, rubber roofing, and galvanized sheet iron are used in its construction; absolute weather-proof. Will last many seasons with little care; can be used in or outdoors, according to the condition of the weather.

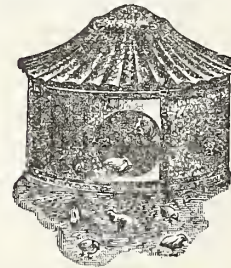
No. 8 will hover 50 chicks. Price, \$5.00.

No. 10 will accommodate 100 chicks. Price, \$8.00.

BROOD COOPS FOR HENS WITH CHICKS



The Delphos Superior Galvanized Brooder Coop—Packed flat and can be put together without any tools. The bottom is elevated so chicks are not exposed to dampness, and it can be removed in an instant to be cleaned. All parts slide together in a bead and coop is perfectly rigid. Can be taken apart and packed away flat, occupying very little space when not in use. Rat and vermin-proof. Lice will not live in a metal coop. A perfect shelter for hen and young chicks. Size, 17½x23x19 inches high in front and 16 inches high in back. Price, \$2.00.



The "Standard" Brood Coop—For hen with chicks. Is rain-proof, rat-proof, vermin-proof, and an absolutely safe and sanitary home. Of first importance to the raising of little chickens is a properly ventilated coop, consequently this matter was given the closest attention. Around the bottom of the "Standard" Coop we have turned out small openings similar to the ventilations on automobile hoods. Price, \$2.00.

POULTRY HOUSES

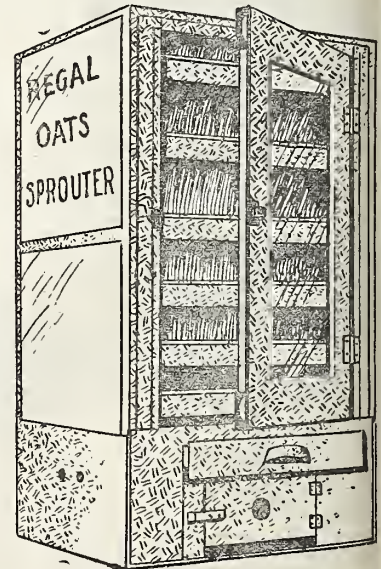
Specification and price furnished on application.

The "Philo" System Coops—As space will not allow us to go into details, we suggest to our customers to let us send them interesting and instructive books on "Philo" System Goods.

"REGAL" OATS SPROUTER

The value of this machine can only be appreciated after you have tested it out. No wood is used in its construction, to warp and fall to pieces after a few days' use. Made from the best grade of Galvanized Steel. Double walled with heat flues running the full length inside. Every drop of moisture and drip goes direct into drip pan. This is one of our special features. Another important feature is the taking in of warm, fresh air not supplied by other makes. If directions are followed, there will be no moulding or souring of grain.

Do your part and this machine will make sprouts several inches high in as many days. Absolutely safe and a piece of furniture that will look good in any kitchen. Made to give satisfaction.



PRICES FOR REGAL OAT SPROUTER

Price Fowls

1. 15x29, 3 trays and soaking tray	\$6.50	50
2. 16x23, 4 trays and soaking tray	9.50	100
3. 20x22x38, 5 trays and soaking tray	12.00	300
4. 24x24x46, 7 trays and soaking tray	15.00	500

NATIONAL OAT SPROUTER

National Oat Sprouter—As per illustration, Fig. 1, with proper care will last a lifetime. Price \$5.00.

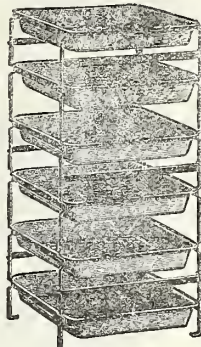
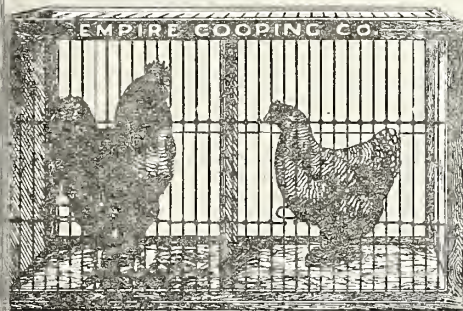


Fig. 1

EXHIBITION AND SHIPPING COOPS, TRAP NESTS, ETC.



Empire Exhibition Coops for training and conditioning show birds, as well as for using to exhibit them. These are carefully and substantially made and will materially aid any bird in winning on account of the way they show them off. Made in different styles: Poultry, Turkeys, Geese, Cats, Calves and Hares. Send for special catalog.

Style C

For prices see top of next column

	Height	Width	Length	Price
A (for 1 or 2 birds)	27	24	24	\$3.50
(2 compartments)	27	24	48	5.00
(3 compartments)	27	24	66	5.50
(4 compartments)	27	24	88	7.00

The Eyrie Shipping Coop—Made of corrugated paper, will carry any distance, saves expressage and always delivers the contents in good shape. Shipped knocked down, and takes up very little space in stock room.

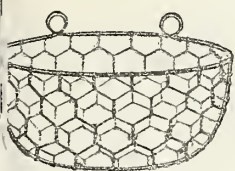
Capacity	Size	Each	Doz.
Single, 12x18x22 in.		\$0.60	\$6.50
Trio, 20x22x22 in. ....		.90	9.00
Pen, 20x24x22 in.		1.00	10.00

Empire Shipping Coops—This is an entirely wooden coop, used for shipping exhibition birds. They are carefully made and will last many trips, carrying the contents safely. Shipped knocked down.

	High	Wide	Long	Each	Doz.
Single Bird Size	25	12	22	\$0.75	\$8.40
Trio Bird Size	25	18	22	.90	9.60
Pen Bird Size	25	22	22	1.00	10.80

Nesco Nestable Nest—Complete, 90c.

WIRE NESTS



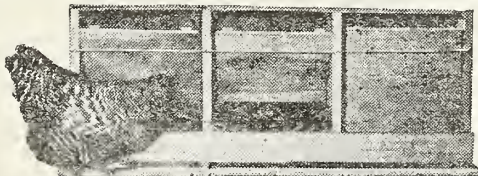
These nests are strongly made from coppered wire, re-inforced with coppered steel ribs, and will last for years. They are intended to fasten to the wall with screws or screw hooks. There is no room on them for lodgment of lice or vermin of any kind; they are easy to keep clean, and are far superior to wooden boxes.

Price: Each, 15c. Parcel Post weight, 1 lb.

NEWTON PRACTICAL TRAP NEST

The truly reliable detector of the shirking hen.

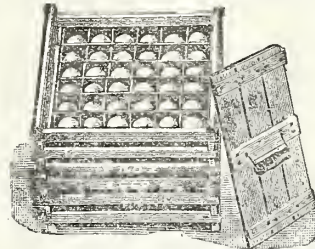
The Practical Trap Nest is a profitable addition to every poultry plant, because it weeds out the drones and cuts down the bills for a man who wants to keep only those birds that produce. Made in sections of 1 to 5 nests. Strongly built of good lumber, as light weight as consistent with strength and durability. With a trap that works noiselessly and surely.



PRICES, SHIPPED CRATED, READY FOR USE:

One Complete Single Nest, 14x18x15 in.	\$1.00
One Complete Set of 2 Nests, 27x18x15 in.	1.80
One Complete Set of 3 Nests, 40x18x15 in.	2.50
One Complete Set of 4 Nests, 53x18x15 in.	3.20
One Complete Set of 5 Nests, 67x18x15 in.	3.90

Your order for one or more Practical Trap Nests will receive our prompt attention. Send it now and do away with those birds that produce nothing and eat much.



EGG BOXES, CARRIERS, ETC.

"Humpty Dumpty" Egg Carrier—Fig. 5. Collapsible. 12-dozen size. Each 40c.; per doz. \$3.25. Weight 7 pounds each.

EGG BOXES FOR PARCEL POST

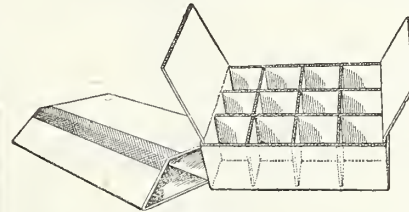


Fig. 7

This shipping package is so constructed that each egg is separated by a thickness of corrugated board and the entire contents are surrounded by a double wall of air-cushioned corrugated board. Their extreme light weight, when compared with other packages, will, in many cases save the postage for an extra pound. Fold flat for shipment. For shipment each egg must be wrapped in paper.

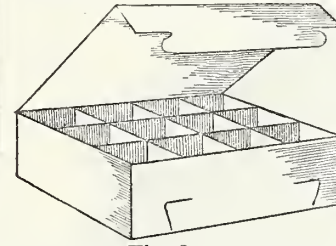


Fig. 8

Size	Wt.	Price	Price	Wt.
1 doz. 1-lb.	Sc.	\$0.75	8-lb.	
2 doz. 1-lb.	10c.	1.10	12-lb.	
3 doz. 2-lb.	14c.	1.50	16-lb.	
4 doz. 2-lb.	17c.	1.80	20-lb.	
5 doz. 2-lb.	22c.	2.25	23-lb.	
10 doz. 4-lb.	35c.	3.75	42-lb.	

M. & S. Egg Box—Fig. 8. This is an ideal box for the retail egg trade, holding 1 dozen, presenting the goods to the customers in an attractive package with the minimum amount of trouble for the seller. They knock down in very compact shape. 10c. per doz., weight 2 lbs. 90c. per 100, weight 11 lbs. \$2.00 per pkg. of 250.

Continental Egg Box—Fig. 9. Eggs packed in these boxes will withstand rough handling and reach the consumer in the best condition. They can be packed neatly in all standard sizes of egg shipping crates. 15c. per doz., weight 2 lbs. 100, \$1.00, weight 14 lbs. 1000, \$8.25.

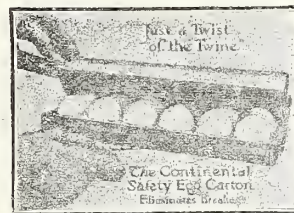


Fig. 9

Egg Case Fillers—For Humpty Dumpty or Regular 15 and 30 dozen Egg Crates. Box containing 100 Fillers and Dividers, enough to fill 10 30-doz. Egg Cases, \$2.00; doz. lots, 25c., weight 2 lbs.



Fig. 11

Anderson's Egg Boxes—Fig. 11. These are made of corrugated paper and are similar in every way to the Eyrie box, except they are not equipped with a handle.

	Each	Doz.
One setting, weight 1 lb.	\$0.20	\$2.00
Two settings, weight 2 lbs. ....	.30	3.00
50-egg size, weight 4 lbs. ....	.40	4.00
100-egg size, weight 5 lbs. ....	.60	6.50

"Saf-eg-pak" Box—Absolutely no risk in sending valuable hatching eggs by express, parcel post, etc. Made of wood.

Size	Each	Doz.
Two settings (30 eggs), weight 3 lbs.	\$0.40	\$4.00
50 eggs, weight 4 lbs. ....	.60	
75 eggs, weight 5 lbs. ....	.70	
100 eggs, weight 6 lbs. ....	.80	

BUTTER BOXES FOR PARCEL POST

This two-piece corrugated box is designed to hold 1, 2, 3, 5 pounds of butter when packed in Tuck End Cartons (which are included in the price) for shipment in Local Delivery and First Zone. The air cells in the corrugated board assist in preserving a uniform interior temperature, making possible the delivery of the butter in a cool, sweet and sanitary condition. Folds flat for shipment.

1 lb., shipping wt., 1 lb., 4c. each;	40c.; shipping wt., 2 lb., \$2.75
2 lb., shipping wt., 1 lb., 5c. each;	50c.; shipping wt., 5 lb., 3.75
3 lb., shipping wt., 1 lb., 6c. each;	60c.; shipping wt., 5 lb., 4.25
5 lb., shipping wt., 1 lb., 7c. each;	70c.; shipping wt., 9 lb., 5.00

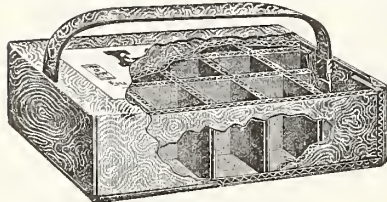


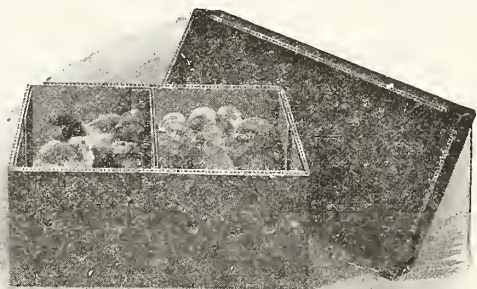
Fig. 2

Eyrie Egg Boxes —
Fig. 2. 1 setting, each, 25c., wt., 1 lb., \$2.25 per doz. 2 settings, each, 30c., wt., 2 lbs., \$3.00 per doz. Cannot be used for parcel post on account of locking feature.

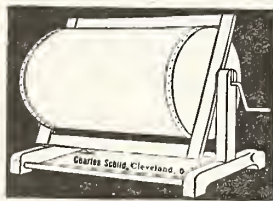
CHICK BOXES

Star Chick Box—Outside frame made entirely of wood and is shipped set up ready for use. 1 doz. chick size, 25c., weight, 2 lbs. 25 chick size, 30c., weight 3 lbs. 100 chick size, 70c., weight 10 lbs.

Live Chick Shipping Box—Made of corrugated paper, extensively used, will carry chicks any distance with perfect safety. Are shipped knocked down and take up small amount of space.



	Weight of 1 box	Size	Each	Doz.
25 chicks	1	12x 6x5	\$0.20	\$2.00
50 chicks	2	12x12x5	.25	2.50
100 chicks	3	24x12x5	.45	4.50



SCHILD'S LICE KILLING MACHINE

to 50 little chicks, or 7 to 9 old fowls, at one operation, according to age, size and breed. It will absolutely do no harm to little chicks or laying hens.

No. 1, Small size	\$3.00
No. 2, Medium size	4.00
No. 3, Large size	5.00

Special Powder for using in these machine, 25c. pkg. 1 pkg. furnished with each machine.

Sometime ago I bought a four-dozen Parcel Post Egg Box from your house. Same made fourteen round trips between Baltimore and Freeland, Md. In the entire time only two eggs cracked.

Yours truly,
(Signed) J. W. ERDMAN, Baltimore, Md.

Gentlemen: I have been using your Norwich Automatic Feeders and Fountains in all of my pens for several years. This season I have put in some of your Norwich Dry Mash Hoppers and I must say that I am more than pleased with all three of these machines. It does away with a great deal of labor, and it really makes the feeding of poultry a pleasure.

Yours truly,

Were Awarded Gold and Silver Medal at the Panama-Pacific Exposition.

Thousands upon thousands in use in every part of the civilized world. Operate with any grain or mixture, never out of order and will last a lifetime. Saves Grain, saves Labor, saves Time. Increases egg production. Waste, Rain, Rat and Bird proof. Improves the flock. Guaranteed satisfactory in every respect or money refunded.

PRICE LIST

		Actual Shipping Weight lbs.	Price
No. 1,	8-qt. Hopper	13	\$2.50
No. 2,	14-qt. Hopper	15	3.25
No. 3,	20-qt. Hopper	20	4.10
No. 4,	32-qt. Hopper	27	5.00

Awarded first prize wherever exhibited.

F. O. B. Baltimore, Md. Discount on quantities.

Can be sent Parcel Post; add postage for zone.

THE NORWICH AUTOMATIC EXERCISER AND FEEDER



NORWICH CHICK FEEDER



Positively prevents chicks from wasting the mash, and it is impossible for them to get into the feed, thus making it an absolutely sanitary feeder. Top rod removable for filling and cleaning. Ends riveted and burled to brackets. The strongest and best Chick Feeder ever placed on the market. Perfection as a sour milk feeder.

PRICE LIST

Made in Three Sizes

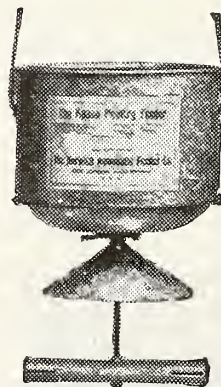
10-inch. Shipping weight, 15 ounces	\$0.25
15-inch. Shipping weight, 19 ounces	.30
20-inch. Shipping weight, 23 ounces	.35

With Rain Top add 10 cents to list and 7 ounces to weight.

F. O. B. Baltimore, Md.

Can be sent Parcel Post; add postage for zone.

THE APACO POULTRY FEEDER



Apaco Feeder

Same mechanical features which have proven so successful in the Norwich Automatic, but of the hanging type. Designed for the small breeder or "backyarder," but not recommended for the commercial plant owing to swaying motion, present in all hanging feeders, if kept constantly in action by larger flocks. Rotary action, complete with the all important adjustable valve for regulating feed discharge, and guaranteed the best automatic feeder on the market at its price.

Made in one size only, 12-qt. capacity. Price, \$1.00. Shipping weight, 5 lbs. F. O. B. Baltimore, Md. Can be sent by Parcel Post; add postage for zone.

J. M. ROBBINS, Fallston, Md.

REVISED PRICES OF
NORWICH AUTOMATIC FEEDERS
AND FOUNTAINS

which were established since catalogue went to press:

No. 1 Feeder	\$3.00
No. 2 Feeder	3.90
No. 3 Feeder	4.90
No. 4 Feeder	6.00
Apaco Feeder	1.25
10" Chick Feeder .....	.30
15" " " .....	.35
20" " " .....	.45
With Rain Top, add 12c. to each	
Dry Mash Feeder	2.50
Dry Mash Feeder, with Rain Guard	3.25
Air Lock Fountain	4.00
Less Burner Base	2.50
Burner Base	1.50

All f. o. b. Baltimore

THE NORWICH AUTOMATIC AIR- LOCK FOUNTAIN

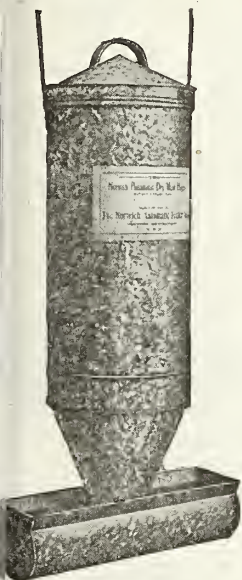
The most perfect device ever placed on the market for automatically supplying pure, fresh water in the poultry house. It is a physical and absolute impossibility to contaminate or pollute the water supply, and requires cleaning about once in three months only. Guaranteed frost-proof to ten degrees below zero, and has been operated at twenty-eight below without being affected. Fitted with detachable cup, removable oil chamber, heat generator, etc. Passed by Fire Underwriters.

Made in one size only, 5 gallons capacity. Shipping weight, 17 lbs.

Price List

Complete with Burner Base, \$3.00
Without Burner Base, 2.00

F. O. B. Baltimore, Md.
Can be sent Parcel Post; add postage for zone.



Without Rain Coat



With Rain Coat

THE NORWICH AUTOMATIC DRY MASH HOPPER

The problem of automatic dry mash feeding is completely solved in this wonderful machine. Operated with automatic vibrator rods, clogging is impossible, while the construction of the feed basin eliminates all waste. There is only three-quarters of an inch of mash in the bottom of the basin, the twenty quarts supply being completely protected from the dust and dirt of the house. Mash always fresh and clean and always the same amount before the birds.

Price List

Made in one size only, 20 quarts capacity.
Without Rain Guard, shipping weight 8 lbs. \$2.00
With Rain Guard, shipping weight, 11½ lbs. 2.75
F. O. B. Baltimore, Md. Can be sent Parcel Post; add postage for zone.



Felker's Jr. Chick Feeder—Feeds dry mash and grain as well as sour milk or water. Price, 25c. each. Parcel Post weight 1 lb.

Atsatt Chick Feeder—Very serviceable; galvanized iron; protected top to keep chicks out. Price, 25c. Weight 1 lb.

SANITARY FOUNTAINS AND HOPPERS FOR POULTRY



Fig. 3

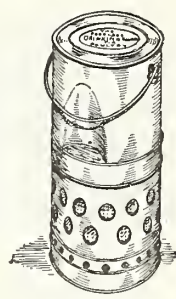
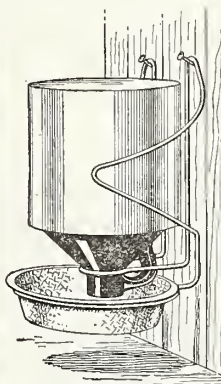


Fig. 2

"Peerless" Drinking Fountain keeps the water clean and pure. 1-qt., brooder size, 30c.; 5-qt., 65c.; 10-qt., 90c.; 5-qt. size with a heater (Fig. 2), to keep water from freezing \$1.90; 10-qt., \$2.65; 5-qt. Heater alone, \$1.25; 10-qt. Heater alone, \$1.75.

Weights on Peerless Goods: 5-qt., 3 lbs.; 10-qt., 4 lbs.; 5-qt., with Heater, 4 lbs.; 10-qt., with Heater, 6 lbs.

Felker's Lug-a-Jug—And have a practical Drinking Fountain for your poultry for thirty-five cents. It consists of a frame and pan to be used in connection with any gallon jug, and will make a perfect drinking fountain. Price, 35c. each. Weight 2 lbs.



Lug-a-Jug

and grit, put separator in middle, and you have three separate feeders. Price, 85c.; small size, 60c. Weight, 5 lbs. each.

Felker's No. 24 and 12 Poultry Feeder—A practical dry mash feeder. Can be used for any kind of grain; designed to hang on the wall. Will not waste the grain and will do as satisfactory work as any high-priced feeder. No. 24, size 24 in. long, 60c., 3 lbs.; No. 12, size 12 in. long, 35c., 2 lbs.

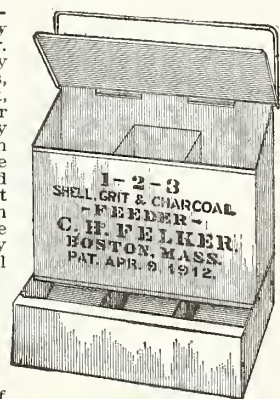
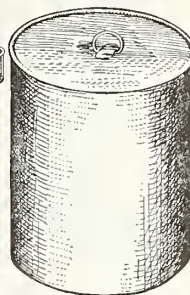
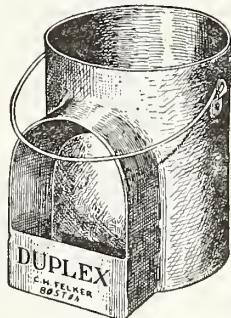
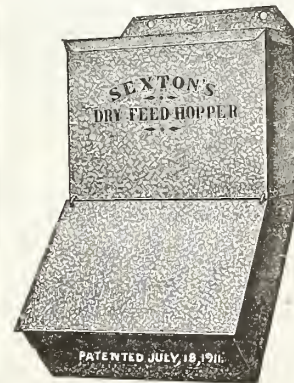


Fig. 1

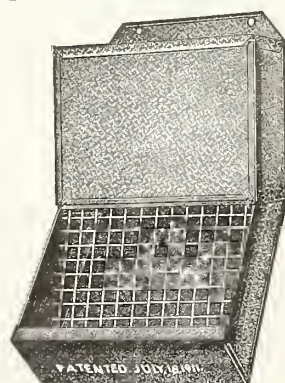


Felker's Duplex Wall Fountain—A big improvement over the old style Wall Fountain. Made in two pieces, as per illustration, out of galvanized iron. Easy to clean, dead air space between cover and reservoir keeps water cool in summer and from freezing in winter. Price, 5-qt. size, 65c., 3 lbs.; 10-qt. size, 90c., 4 lbs.

Sexton's Dry Feed Hopper—Easy to fill and no waste. Pronounced to be the best hopper offered. Simple in construction, easily operated, and absolutely rat, mouse and dust-proof. No. 1, poultry size, \$1.25 each. Weight 7 lbs.



Closed



Open

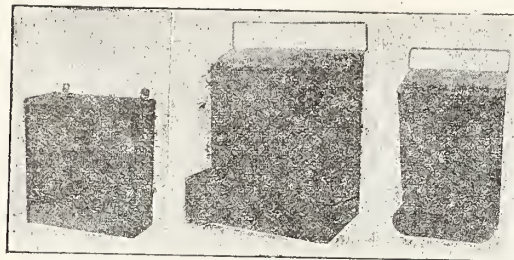


Fig. 4

Fig. 5

Fig. 6

wasting food. Two compartments. Price, 60c. Weight, 4 lbs.
Round Bottom Grit and Shell Box—Fig. 6. Round bottom—a feature absolutely new to grit and shell boxes. No clogging of grit and shell in the corners. Easily the most satisfactory grit and shell box ever placed on the market. Price, 60c. Weight 3 lbs.

Rectangular Grit and Shell Boxes—Fig. 4. Liked by many because dust and straw cannot easily get into the trough. Price, 50c. Weight, 3 lbs.

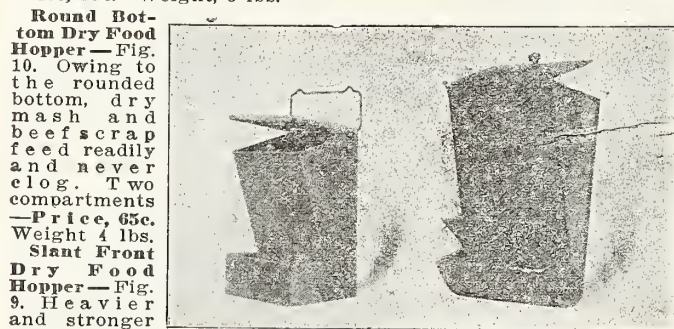
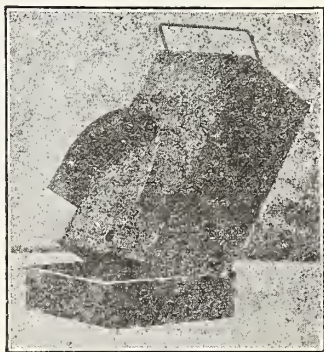


Fig. 9

Fig. 10

Slant Front Dry Food Hopper—Fig. 9. Heavier and stronger than most of its competitors of the slant front variety. Price, 65c. Weight 4 lbs.

Drop-Bottom Founts. Fig. 8. 28-gauge galvanized steel. Easiest thing in the world to open and clean. Clasp by which the bottom is fastened fits over the small hole under the hood, preventing slopping of water when the fount is handled. Solid brass hinge rod—no rust.
 2-quart, weight 2 lbs....\$0.50
 1-gallon, weight 2 lbs.... .70
 2-gallon, weight 4 lbs.... .90



The Nesco Fountain, as per illustration, Fig. 9 Impossible for chickens or pigeons to roost on same.



Fig. 9

	Weight	Price
1-quart....	1 lb.	\$0.25
2-quart....	2 lbs.	.30
4-quart....	2 lbs.	.40
8-quart....	3 lbs.	.60

Nesco No. 0 Chick Fount.
 10c. each, weight 1 lb.;
 \$1.00 per dozen, weight 4 lbs.



Fig. 9

No. 50 and No. 100. No-Slop Feeder and Fountain combined (as per illustration Fig. 10) to be used with Mason Preserve Jar. Made in two sizes.

No. 50—Small, 15c. each, weight 1 lb.; \$1.50 per dozen, weight 4 lbs.

No. 100—Large, 20c. each, weight 1 lb.; \$1.75 per dozen, weight 6 lbs.

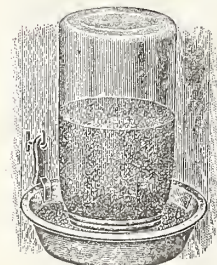
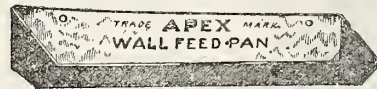


Fig. 10

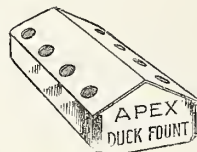
Straight Front Dry Food Hopper—Fig. 5. At least as good as any other straight front hopper made, and lower in price. Perfectly straight front, which causes the contents to feed readily. Lip in front. Wire bars to keep the fowls from

"Apex" Wall Feed Pan—It can be hung high or low out of the way. Easy to clean. Can be used for feed, grit, etc. Price, 35c. and 25c. Weight 2 lbs.



"Apex" Single Chick Feeders—Are made with hinged top, provided with small rings to hang on wall if desired. Made in four sizes of three, six, nine and twelve holes. Prices, 30c., wgt. 1 lb.; 45c., wgt. 2 lbs.; 60c., wgt. 2 lbs.; 90c., wgt. 3 lbs.

"Apex" Double Chick Feeders—Are made with the readily removable patent slip top. Chicks can feed from both sides. Made in three sizes of six, ten and fourteen holes. Prices, 45c., wgt. 2 lbs.; 65c., wgt. 3 lbs.; 85c., wgt. 4 lbs.



"Apex" Duck Fountain—This fountain has been constructed along the lines of the "Apex" feeders, without, however, having the "Apex" bottom. The duck can readily drink, but cannot get the bill into the water for enough to "wallow." Two sizes, 2 qt., 50c., wgt. 2 lbs., and 4 qts., 75c., wgt. 3 lbs.

CHICKEN AND PIGEON LEG BANDS

ALL POSTPAID

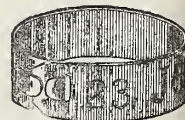
Mark your old hens to distinguish them from pullets, so that you can catch the right one to kill at the first grab.



Fig. 5

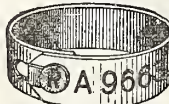
No. 5. Ordinary large Asiatics and tom turks, etc.

"Spir-Ol" Leg Bands are made of celluloid in different colors; black, white, light blue, dark blue, red, green, yellow, brown, etc. Prices: Three Poultry Sizes to correspond with Nos. 2, 3 and 4 in above list, 12, 15c.; 50, 60c.; 100, \$1.00; 500, \$4.00. Pigeon and Day Old Chick Size, 12, 15c.; 25, 25c.; 50, 40c.; 100, 65c.; 500, \$3.00.



Double-Clinch

"Smith Sealed" Bands—If you want the best be sure you get "Smith Sealed" stock numbered bands. Every band is numbered different. Prices, Dozen, 30c.; 25, 50c.; 50, \$1.00; 100, \$1.50; 250, \$3.50; 500, \$6.50; 1,000, \$12.50. Sizes as table above.



Smith Sealed

Sealers, for sealing S. S. Bands—Plain, 50c.; lettered jaw, 60c.; nickel plated, 65c.; lettered jaw, 75c.

"Double Clinch" Leg Bands—Made in sizes as table. A strictly reliable open or removable band. Fastens with two clinches, leaving absolutely no exposed corners, ends or loops to come loose. Prices, Dozen, 20c.; 25, 30c.; 50, 45c.; 100, 75c.; 250, \$1.75; 500, \$3.25.

"Challenge" Adjustable Leg Bands—Similar to Champion. Latest and best adjustable leg band out. Has neatest, most compact and smoothest fastening of any adjustable band on the market. Prices, Dozen, 20c.; 25, 30c.; 50, 45c.; 100, 75c.; 250, \$1.75; 500, \$2.75.



Fig. 2

\$1.50; 500, \$2.75; 1,000, \$5.25.

"Cilmax" Leg Bands—Fig. 5. The original "Spring" wire and clasp band. Prices, Dozen, 20c.; 25, 30c.; 50, 45c.; 100, 75c.; 250, \$1.75; 500, \$3.25. Made in sizes as table above.

"Coloroid" Eclipse Poultry Bands—Made in eighteen colors. Black numbers on white ground on two sides of the band; can be read at several feet distance. Prices, Dozen, 35c.; 25, 75c.; 50, \$1.50; 100, \$2.50.

Mr. L. M. Webb, No. 3 Hayward Avenue, Arlington, Md., tells us that Park & Pollard's Foods are the only ones to feed.

Seamless Pigeon Bands—Made in three sizes. ices, Dozen, 30c.; 25, 50c.; 100, \$1.50.
Open Chick, or Pigeon Bands—Made in two sizes. Prices, Dozen, 20c.; 25, 30c.; 50, 45c.; 100, c. Fig. 6.
Coloroid Three Number Pigeon Bands—Fig. 7. is band is the most visible, most effective and actual numbered leg band made, in colors that can be seen at a distance. Prices, 6 pairs, 25c.; pairs, 50c.; 25 pairs, \$1.00; 50 pairs, \$1.50.



Fig. 6



Fig. 7

Ideal De Luxe Pigeon Bands—Two colors on each band, all for marking mated pairs. Prices, 6 pairs, 30c.; 12 pairs, c.; 25 pairs, \$1.00; 50 pairs, \$1.75.



STERLINGWORTH WATER GLASS

Put your eggs down in the spring and summer when they are cheap and keep them fresh for ten months. One gallon make sufficient solution for 50 dozen. Do not trust eggs to water glass of inferior strength. Buy Sterlingworth Water Glass, the pure, strong kind. It will stand the maximum amount of dilution with water. Don't take chances.
 Price, 1 quart, 35c.; 1 gallon, 75c.

EGG-O-LATUM—Keeps Fresh Eggs Fresh for One Year

EGG-O-LATUM is a white cerate or ointment. Rubbed over a shell of the egg it seals every pore so that nothing can get in or out. The egg does not dry out. No air, moisture, odors, germs can get in. The egg is preserved in all its original freshness. The application of Egg-o-latium is easily and quickly done. A dozen per minute. Fresh eggs must be used, preferably unfertile. Per jar, 50c., postpaid. Enough for 50 dozen eggs.

NEST EGGS, RAT DESTROYERS



A Scientific Triumph!

LICE KILLER and NEST EGGS

COMBINED IN ONE
 Effective Lasting Not Expensive
 Superior to any other in Form, Size, Appearance and every way.
 They look exactly like natural Plymouth Rock eggs and are excellent for laying hens.

Knox Nest Eggs—Prices, 5c. each; dozen, 50c. Special price quantities.

Opal Nest Egg—Prices, 3c. each; 2 for 5c.; dozen, 25c. Special c on quantities. Weight 1 dozen, 1 lb.

RAT—Not a poison, but a virous—Sure rat destroyer. 50c., postpaid. Safe to use in the chicken yard, as it is only harmful to rodents.



Lightning Poultry Bits—To stop feather pulling instantly. Price, 10c. Fig. 4. Postpaid.

Poultry Roup Syringe—10c. postpaid.

Fig. 4

fr. H. H. Seabrook, Sylverside, Md., says: "Your Regal Oats outer is fine, produces quickly and does not mold the grain."

frs. R. L. de Potestad, of Ellicott City, Md., says: "I find the k & Pollard foods excellent and cheaper in the end than less expensive foods I have tried."



PIGEON BATH PANS, NESTS, ETC.

Feed Cups for Exhibition and Training Cages—Fig. 2. Large size, 25c. each, \$2.50 dozen; small size, 20c. each, \$2.00 dozen. Weight each 1 lb.



Fig. 1



"Apex" Pigeon Bath Pan—These are of best quality galvanized iron, riveted corners, wired with heavy wire, will not rust, and with ordinary care should last for years. Size, 18 in. square, 4 in deep, capacity about 5 gal., \$1.00. Weight 4 lbs.



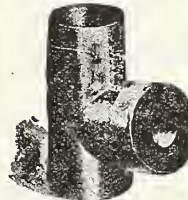
Fig. 2

Earthenware Poultry and Pigeon Fountains—Fig. 1. Especially adaptable for warm weather, as the water does not get so hot in them. Price, pint size, 20c.; qt., 25c.; 2-qt., 35c.; 4-qt., 45c.; 8-qt., 60c.



Indurated Fibre Pigeon Nest—Fills a long-felt want for all squab breeders. Price, 15c. each, wgt. 1 lb., \$1.50 per doz., wgt. 9 lbs.; original carton of 3 dozen, \$4.00, wgt. 22 lbs.

Magic Egg Tester—Guaranteed to tell fertility of eggs before putting them in incubator or under hen. No poultry man should be without it. Price, \$2.00, postpaid.



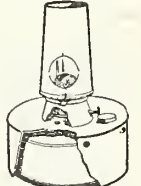
X-Ray Egg Tester

X-Ray Egg Tester—Price, 25c. each. Mailing wgt. 1 lb.

Vermin-Proof Roost Support—Price, 25c. pair. Mailing wgt. 2 lbs.

Blue Flame Gas Burner for Incubators—Price 60c. each, postpaid.

The X-Ray Pocket Egg Tester and Pocket Flashlight—Fig. 12.



Zero Brood Stove

Shows plainer than any other tester the development of the embryo. Gives a surprisingly powerful white light. A sensible, economical article for every day use. With guaranteed long life Tungsten Battery that lasts three times longer than any other battery. In ordinary use it will last for many months. The X-Ray has a detachable nickel-plated cup, and can be used with or without the cup as a Pocket Flashlight. The cup acts as a searchlight reflector when left on.

Price, \$1.50, postpaid; complete with battery and nickel-plated cup.

O. K. Incubator and Brooder Lamps. Safest lamp made. With proper care will last for years. No. 1, 5/8-in. wick, complete with burner and chimney, 55c.; No. 2, 3/4-in. wick, complete with burner and chimney, 70c.; No. 3, 1 1/2-in. wick, complete with burner and chimney, \$1.10. Weight on all, 2 lbs.

"Zero" Brooder Stove—For persons making their own brooder. All complete, \$1.25. Weight on all, 3 lbs.

Incubator Wicks—State sizes wanted. Price, 2 for 5c.; doz., 25c., postpaid.

Brooder Wicks—State sizes wanted. Price, 2 for 5c.; doz., 25c., postpaid.

Incubator Lamp Burners—For "Mandy Lee," Cyphers, Essex, Prairie State and other makes. Large size, 50c.; small size, 40c. Mailing weight, either size, 1 lb.

Brooder Lamp Burners—For various makes. Price, 50c. Mailing wgt. 1 lb.

"Zenith" Chimneyless Brooder Lamp—Price 40c. Mailing wgt., 1 lb.

Felt—For Incubator Diaphragms and Brooders—Price 40c. square yard, postpaid.

Weather-proof Sheeting—Valuable for curtains on poultry house fronts. Keeps out rain and drafts, but permits light. Price, heavy grade, 15c. yard, postpaid.

We carry Cyphers, Cycle Hatcher and other brooder and incubator repairs.



No. 3 O. K. Lamp 10-in. High



INCUBATOR THERMOMETERS, CAPONIZING SETS, ETC.

ALL POSTPAID

Cyphers Incubator Thermometer, 75c.
Cyphers Adaptable Hover Thermometer, 60c.
Cyphers Portable Hover Thermometer, 65c.
"Tycoos" Incubator Thermometer, No. 5770—Many poultry

raisers prefer the standing type of Incubator Thermometer. No. 5770 is made with metal legs, which fold under and may be adjusted to almost any desired position. Sets in among the eggs on the floor of the incubator. Made in mercury tubes only. Price, 75c. each.

"Tycoos" Incubator Thermometer. No. 5782—Most popular. Suitable for any incubator. Price, 60c.

"Tycoos" Certified Incubator Thermometers. No. 5782—Price, \$1.00.

"Tycoos" Brooder Thermometer—Unmounted. Price, 40c. Mounted, 50c.

"Tycoos" Incubator Hygrometer. No. 5796—Price, \$1.50. Extra wicks 10c. each.

"International" Hover Thermometer—Price, 50c.

Philadelphia Caponizing Set—In plain box, \$3.

Philadelphia Caponizing Set—In velvet-lined box, \$3.25.

Pilling-Farmer—In velvet-lined box.....\$3.50

Pilling-Special—In velvet-lined box.....4.50

Pilling-Twinning—In velvet-lined box.....4.50

Pilling-Miles—In velvet-lined box.....6.00

Gape Worm Extractors—Price, 30c., postpaid.



Fig. 5 Philadelphia Poultry Marker—Large and small. Price, 30c., postpaid. Fig. 5.

Poultry Marker—In shape of pliers. Price, 30c., postpaid. Fig. 6.

Pilling Fowl Catcher—Price 25c., postpaid. Fig. 7.

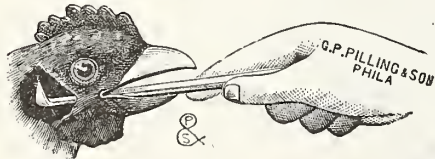


Fig. 7

Angular Killing Knives—Fig. 7. Price, 65c. each.

French Poultry Killing Knife—Fig. 6. Price, 65c.

French Safe Edge Killing Knife—Price, 65c.

All the above postpaid.



Fig. 6



The Disinfectant That Paints—Use it instead of Whitewash. Put on with a brush or sprayer. A snow-white cold water paint that will not blister, flake or peel off, combined with a germicide 20 times stronger than carbolic acid, but neither caustic nor poisonous.

Particularly good for use in stables, cow barns, chicken coops, dairies, hog pens, creameries, cellars, factories, out-buildings. Prices: Trial package, by parcel post, 25c.—Paints and disinfects 250 square feet. 10 pounds (10 gallons) for \$1.00.

ANTI-SETTING DEVICE—Stops the Hen Setting

Breaks 'Em Up in 24 Hours (Patent Applied For)

Does not in any way injure the fowl. Requires 5 seconds to apply. Wrap around the leg joint blank sides front and back. Allow the hen to feed and run with the flock 24 hours, then remove. It will change her setting ideas, and put her on the layers list in the shortest possible time. Does away with broodie coops and the extra care tending them. Poultry keepers, large and small cannot afford to do without it. So simple and effective you will wonder why you had not thought of it. Guaranteed to do all we claim. Saves dollars that only costs cents. Try it. Prices, 10c. each; dozen, \$1.00, postpaid.

POULTRY FEEDS, GRIT, SHELL, ETC



Overall Dry Mash Feeder or Fountain

Prices: 1 pk., 60c. (6 Lay or Bust Bags). 6-qt. size, 50c. (5 Lay or Bust Bags).

comparison of prices, keep in mind that every kernel of grain in our feed is sweet, and that there are no sweepings or weed seed contained. 5 lbs., 20c.; 10 lbs., 35c.; 100 lbs., \$3.00. The great 1912 Baltimore Poultry and Pigeon Show was fed with this Food. To prove its worth it was fed again in 1914.

Park & Pollard Growing Feed—Stuff your youngsters with it and your chickens will always be ready for the table or market and show you better returns than ever before. As a moulting food for all old stock and a pusher for the developing pullets it is recognized as the best by all poultrymen who have used it. Lb., 3c.; 100 lbs., \$2.75.

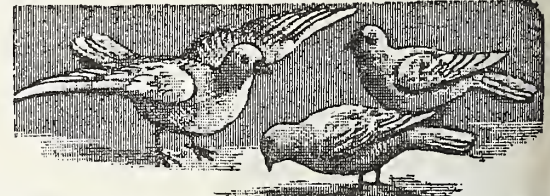
Park & Pollard Intermediate Chick Feed—Keeping the commercial end of poultry always in mind, we manufacture the "Intermediate" Chick Feed, selling at a less price than Gritless Chick Food. This contains the same high quality grain and seeds, but no fish. It is fed after the chicks are five weeks of age, being fed in connection with our Growing Feed. Lb., 4c.; 100 lbs., \$3.35.



Overall Chick Feeders Price, each, 40c. (or 4 Lay or Bust Bags)

we use being put through a special preparatory process that eliminates all the fat; it supplies the newly hatched birds at the crucial age when most needed, with animal protein, without the animal fat. Lb., 4c.; 100 lbs., \$3.50.

Park & Pollard Red Ribbon Chick Feed—If you feel you cannot afford Gritless Chick Feed, try out Red Ribbon brand. This will raise more chickens than any other feed except Gritless Chick Feed. It is manufactured just as carefully as our famous Gritless Chick Feed brand, but leaving out the animal food reduces the cost, so that we can sell it at a lower price. Lb., 4c.; 100 lbs., \$3.25.



Mixed Pigeon Food—Composed of re-cleaned, sound and sweet grains and seeds in a great variety. The 1912 and 1914 Baltimore Poultry and Pigeon Show was fed with this food. Price, lb., 4c.; 100 lbs., \$3.25.

Tobacco Stems—Price, 3c. lb., 100 lbs., \$1.50. Special price on quantity.

Royal Crown Beef Meat (Beef Scrap)—High grade article, guaranteed 50% protein. At a recent test at the Maryland Agricultural College it was found to contain over 60%. Price, 4c. per lb.; \$3.25 per 100 lbs.

Crushed Oyster Shell—Important as an egg-shell maker. Price, 5 lbs., 10c.; 10 lbs., 15c.; 25 lbs., 25c.; 50 lbs., 35c.; 100 lbs., 60c. Two sizes, fine and coarse. Special price on quantity.

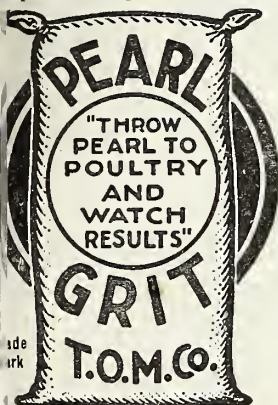
Storage Can—Fig. 1. Galvanized. deep cover, rat and damp-proof. Excellent for storing grain or dry mash. Capacity 2 bushels. Price, \$1.75.

Charcoal—Aids digestion and promotes health. Fine, Medium, Coarse. Price, 1 lb., 5c.; 5 lbs., 20c.; 50 lbs., \$1.25.



Fig. 1

Alfalfa Clover—Dustless, short-cut, pure alfalfa, specially prepared for poultry. Price, 1 lb., 3c.; 100 lbs., \$1.85.



Cracked Bone—Fine, Medium, Coarse. Price, 1 lb., 5c.; 100 lbs., \$3.00.

Pearl Grit—For more eggs and healthy fowls use Pearl Grit. It serves a double purpose—grinds, nourishes, strengthens, and makes shell. No. 1 for chicks and pigeons; No. 2, medium poultry; No. 3, large poultry. Price, 5 lbs., 10c.; 10 lbs., 15c.; 25 lbs., 25c.; 50 lbs., 40c.; 100 lbs., 75c. Special price on quantity.

"Hen-e-ta" Bone Grits—No other grit or shell is necessary to be fed with it. No. 3, Coarse; No. 2, Medium; No. 1, Fine; No. 4, Superfine. Price, 10 lbs., 50c.; 25 lbs., \$1.00; 100 lbs., \$2.25; 500 lbs., \$9.00.

"Red Cross" Health Grit—For pigeons and poultry. Price, 5 lbs., 15c.; 10 lbs., 25c.; 50 lbs., 90c.; 100 lbs., \$1.50.

VARIOUS POULTRY AND PIGEON FOOD

	Per lb.		Per lb.
Whole Corn	3½c.	Linseed Meal	5c.
Cracked Corn	3½c.	Kaffir Corn	4c.
Corn Chop	4c.	Canada Peas	6c.
Wheat	3½c.	Buckwheat	4c.
Barley	3½c.	Cracked Rice	5c.
Orzo	3½c.	Hemp Seed	10c.
Man	3c.	Millet Seed	7c.
Feedings	3c.	Hulled Oats	5c.
Butter Meal	4c.	Sunflower Seed	10c.
Cotton Seed Meal	4c.	Roller Oats	5c.

Prices on larger quantities furnished on application.

SONG BIRD SUPPLIES



	Lb.		Lb.
Canary Seed	10c.	Sunflower Seed	10c.
German Rape	10c.	Hemp Seed	10c.
Millet	10c.	Maw Seed	50c.

Special price in quantities.

Cuttle Fish Bone—Price, 5c. each.

"Gloria" Song-Restorer Food—This is an important article which is scientifically proportioned and has been fed with great success. Price, 1 lb., 18c.; 10 lbs., \$1.50.

For-get-me-not, Wild Bird, Seed Mixture—Feed the little songsters in the winter time. 10c. lb.

Park & Pollard Bird Lice Powder—A most effective remedy for killing lice and fleas on birds, cats, dogs, monkeys, rabbits, etc. Price, 25c.

P. & P. Superior Bird Tonic—Remedy for loss of song, moulting out of season, colds, etc., for Cage Birds. Price, 25c. Liquid, cannot be sent by mail.

M. & S. RUSTIC AND ORNAMENTAL BIRD HOUSES

Comparatively few of us recognize the great economic value of birds. Particularly the Blue-Birds, House Wrens, and Martins are very easily domesticated. Their favorite nesting sites are bird-houses made for their use which may be placed about the garden, farm, or orchard. As rent, these faithful birds pay simply by destroying millions of insects annually. Birds take more kindly to old looking houses. A little weather beating giving them a more natural appearance. The earlier in the spring you get them up the better. The main thing to remember if we wish to attract the birds, are that we must furnish them with proper nesting places, shelter, food and water and protect them at all times from their enemies.

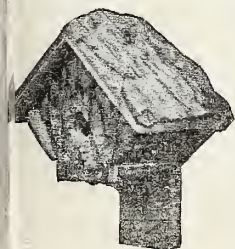


Fig. 1

The Tepee—A very artistic hanging wren house, suitable for decorating porch. Price, \$1.25.

The Bungalow—Fig. 1. A very attractive house and especially popular with the wrens. This bracket house can be put up almost anywhere. Price, \$1.00.

The Log Cabin—A swinging house, very popular. Price, \$1.00.

The Gables—A wren house. Similar to blue bird house. Price, \$1.00.

The Shack—Another attractive wren house. Price, 75c.

Woodpecker House—Woodpeckers are especially beneficial in orchards or about fruit trees. You will want several of this style. Price, \$1.25.

Blue Bird House—Fig. 2. Price, \$1.25.

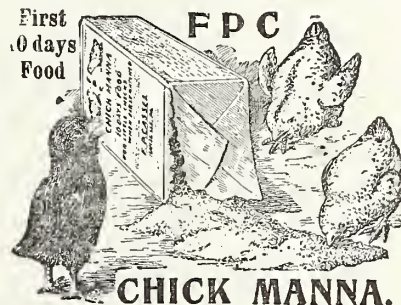
All the above houses are heavy and it is advisable to send them by express.

Wren Houses—Nicely finished of seasoned wood, set up, 35c. each; not set up, 25c. Parcel post weight of either, 2 lbs.

Clay Wren Box—15c. each. Weight 2 lbs.



Fig. 2



CHICK MANNA.

Nothing more for the first ten days than chick manna. Prices, 1-lb. pkg., 10c.; 3-lb. pkg., 25c.; 5-lb. pkg., 40c.; 15-lb. pkg., \$1.10; 60-lb. bulk case, \$4.20; 100-lb. bulk case, \$7.00.

RELIABLE POULTRY REMEDIES, CONDITIONERS, INSECT DESTROYERS, DISINFECTANTS CONKEY'S REMEDIES

Conkey's Buttermilk Starting Food—For Baby Chicks, to be fed for 21 days. 1 lb., 10c.; 3 lbs., 25c.; 6½ lbs., 50c.; 100 lbs., \$5.75.

Roup Cure 25c.; postpaid, 50c. and \$1.00
Bronchitis Cure postpaid, 50
Cholera Cure 25c.; postpaid, 50
Gape Remedy 50c.; postpaid, 60
Limber Neck 50c.; postpaid, 55
Scaly Leg 25c.; postpaid, 30
Healing Salve 25c.; postpaid, 30
Poultry Tonic 25c.; postpaid, 30
Chicken Pox 50c.; postpaid, 60
Worm Cure postpaid, 50
Poultry Laxative 25c.; postpaid, 30
Head Lice Ointment 10c.; postpaid, 25
Black Head Remedy ... postpaid, 50
White Diarrhoe Remedy, postpaid, 50
Rheumatic Cure ... 50c.; postpaid, 55
Lice Powder, not postpaid, 10c., 25c., 50c. and \$1.00.

Poultry Tonic—Express not paid. 25c. and 50c. 12-lb. pail, \$1.25; 25-lb. pail, \$2.50; 10-lb. bag, \$4.75; 100 lb., \$9.00.

Lice Liquid—Express not paid. Qt., 35c.; 2 qts., 60c.; 4 qts., \$1.00.

Noxide Disinfectant—Express not paid. Pt., 35c.; qt., 60c.; 2 qts., \$1.00; gal., \$1.50.

Lee's Germozone—The best tonic for poultry of all kinds. Cures roup, cholera and other poultry diseases. 12-oz. bottle, 50c.; in tablet form postpaid, 50c.

Lee's Egg Maker—One of the best egg producers and tonic. 25c. pkg., shipping weight 3 lbs.; 50c. pkg., shipping weight 6 lbs.; pail, \$1.25 and \$2.50.

Lee's Lice Killer—Qt., 35c.; 2 qts., 60c.; 1 gal., \$1.00. Liquid.

Lee's Insect Powder—For poultry. Price, 25c. and 50c. pkg., shipping weight 2 and 4 lbs., respectively.

French Poultry Mustard—Will increase egg production. 1½-lb. box, 35c.; 3-lb. box, 65c.; 5-lb. box, \$1.00; 10-lb. box, \$2.00; 25-lb. pail, \$5.00.

"Zenoleum" Disinfectant Lice Killer and Animal Dip—1 gallon makes 100 gallons of fluid. 8 oz., 25c.; 1 qt., 50c.; 1 gal., \$1.50. Liquid.

"Chemo"—Destroys all insects. It is stainless; can be sprayed direct on white poultry. A thorough disinfectant. The great 1913-14 Baltimore Poultry Shows were disinfected with "Chemo." 1 qt., 60c.; ½ gal., \$1.00; 1 gal., \$2.00.



Fox's White Diarrhoea and Cholera Remedy and Conditioner—Greatest conditioner and bowel regulator ever put on the market for Chickens, Pigeons, Turkeys, Ducks, Geese, etc. 35c. bottle.

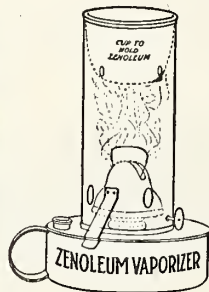
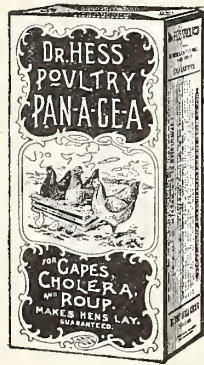
Oculum—Great tonic and remedy for most all diseases in poultry. 50c. bottle.

Chas. T. Cornmau's Condition Tablets—For Poultry and Pigeons. Price, 50c., postpaid.

Going Light Tablets—Price, 50c., postpaid.

Zenoleum Vaporizer—Prevents and cures Cold and Roup. One of these lamps ought to be in the hands of even the smallest poultry keeper. Send for circular describing same. Price, each, postpaid, \$2.00; ½ dozen, \$10.00.

Margaret Mahaney Turkey Food—The best mash food. 4c. lb.; \$2.75 100 lb.



"American" Turkey Powder—It is sure to raise your young turkeys to healthy birds. For poultry and pigeons. Shipping weight 2 lbs. Price, 25c.

Margaret Mahaney Black Head Remedy—For turkeys; sure cure. Price, \$1.00 postpaid.

Model Salt Cat Brick—For poultry and pigeons. Shipping weight 2 lbs. Price, 15c.

Whitting's Roupene—Cures roup, diphtheritic roup, colds, etc. Liquid. Price, \$1.00 and 50c. bottles.

Mrs. Haven's Baby Chick Remedy—Guaranteed to cure white diarrhoea. Price, 25c.; by mail, 30c.

Dr. Hess' Poultry Pan-a-gee—Guaranteed tonic and egg producer. 1½ lb. pkg., 25c.; 6-lb. pkg., 60c.; 12-lb. pkg., \$1.25; 25-lb. pail, \$2.50.

Dr. Hess' Instant Louse Killer—Shipping weight 2 lbs. Price, 25c. pkg.

Star-Egg-O—Is highly recommended for Laying Fowls and growing chickens. Prices, 1 lb. pkg., 25c.; 2½ lb. pkg., 50c.

Star-Chic-A—Is a specially prepared Baby Chick Food, which will start the youngsters in great shape. Prices, 5 lb. pkg., 40c. Prices in bags: 12½ lbs., 90c.; 25 lbs., \$1.60.

The Star Roup Powder—Is a preventive and cure for Roup, Colds and Canker in poultry and pigeons. Prices, 25c. pkg., postpaid.

The Star Lice Powder—Is essential to the poultry raiser. Price, 1-lb. pkg., 25c.

PRATT'S REMEDIES



Pratt's Poultry Regulator—In use by the most successful poultry raisers everywhere. Pkg., 10c.; 25c. and 50c., shipping weight 1, 2 and 5 lbs., respectively. 12-lb. pail, \$1.25; 25-lb. pail, \$2.50.

Pratt's Roup Remedy—Pills or powder. Price, 25c., 50c. and \$1.00, postpaid.

Pratt's White Diarrhoea Remedy—Price, 25c. and 50c., postpaid.

Pratt's Cholera Remedy—Price, 25c. and 50c., postpaid.

Pratt's Gape Remedy—Price 25c. and 50c., postpaid.

Pratt's Bronchitis Remedy—Price, 25c. and 50c., postpaid.

Pratt's Chicken Pox Remedy—Price, 25c. and 50c., postpaid.

Pratt's Condition Tablets—Price, 25c. and 50c., postpaid.

Pratt's Head Lice Ointment—Price, 10c. and 25c., postpaid.

Pratt's Sealy Leg Remedy—Price, 25c. and 50c., postpaid.

Pratt's Poultry Disinfectant Lice Killer and Dip—1 qt., 35c.; 2 qts., 60c.; 1 gal., \$1.00. Liquid.

Pratt's Lice Killer—Powdered form. Price, 10c., 25c. and 50c., shipping weight 1, 2 and 4 lbs., respectively.

PRATT'S BABY CHICK FOOD



Every man, woman or child who raises little chicks, turkeys, ducks and geese should try at least one package of Pratt's Baby Chick Food. It is a scientific food ration to be fed for the first two weeks. Put up in 10c. 25c. and 50c. pkgs., shipping weight 2, 4 and 7 lbs., respectively; also 25-lb., 50-lb. and 100-lb. bags, \$1.75, \$3.25 and \$6.00, respectively.

Calsino Poultry Restorative—Price, 25c. pkg., shipping weight 2 lbs. 50 lbs., \$5.00.

Calsino Gape Cure—Sure cure. Price, 25c.; by mail, 30c.

Calsino Lice Powder—Price 10c. and 25c. pkg., shipping weight 1 and 2 lbs., respectively.

DOG FOODS AND REMEDIES, ETC.



Corner's Ready-to-Feed Cooked Dog Food—The best dog food on the market in the shape of meal; can be fed dry or wet. We have hundreds of customers who are feeding this food with entire satisfaction. Send for special booklet. Price of food, 5c. lb.; 100 lbs., \$4.00.

Spratt's Meat Fibrine Vegetable Dog Cakes—A staple food for all breeds; too well known to be described. Price, 10c. lb.; 100 lbs., \$8.00.

Spratt's Puppy Biscuits—The standard puppy food. 10c. lb.; 100 lbs., \$8.50.

Thoroughbred Dog Biscuit—Greatly relished by all classes of dogs. 10c. and 25c. cartons. Parcel Post weight, 1 and 3 lbs.

Spratt's Dog Remedies—A remedy for each disease. Send for special booklet.

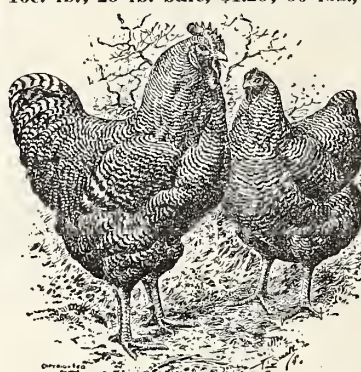
Spratt's White Dog Soap—Death to fleas. Price, 25c., mailing weight 1 lb.

Vermilax—Guaranteed worm expeller and tonic. Price, bottle, 50c. and \$1.00. Liquid.

Vermilax Dog Remedy—A remedy for each disease. Send for special booklet.

Vermilax Dog Soap—25c. cake, mailing weight 1 lb.

Cedar Bedding—For dogs, cats, etc. Made of cedar wood shavings. Sanitary and proof against fleas and other vermin. 10c. lb.; 25-lb. bale, \$1.25; 50 lbs., \$2.25; 100 lbs., \$4.00.



PRICES ON UTILITY EGGS FOR SETTING OR INCUBATORS

Eggs of Single Comb White Leghorn, Barred Rock, Rhode Island Red, both Single and Rose Comb, and White Wyandottes, we can furnish as low as \$1.50 per setting of 15; \$6.00 per 100, f. o. b. our store.

PRICES ON SPECIAL MATING EGGS AND STOCK

Black Minorcas, Andalusians, Anconas, Houdans, Barred, White, Buff and other Plymouth Rocks, Single and Rose Comb Rhode Island Red, Black Langshan, Wyandottes, Buff, White and Black Single Comb Orpington, White, Brown and Buff Single Comb Leghorns.

Eggs—

Thoroughbred Stock, 15 eggs \$2.25

Thoroughbred Stock, 100 eggs 8.00

Exhibition Stock, 15 eggs 3.00

Exhibition Extra Quality, 15 eggs 5.00

Stock—

Thoroughbreds, each, from \$2.00 to \$3.00

Thoroughbreds, choice, each 4.00

Exhibition Birds \$5.00 to \$25.00

We can furnish most all other varieties of poultry at the above figures, but must always have a week or ten days to furnish stock wanted.

White Pekin and Indian Runner Duck Eggs, \$1.50 and up per setting of 11; \$10.00 per 100.

Prices on Turkey, Geese, Guinea, Pheasant and Pea fowl Stock and Eggs furnished on application.

PRACTICAL POULTRY BOOKS

Practical Poultry Books—(All Postpaid). The Orpington, 75c.; Rhode Island Reds, 75c.; Successful Poultry Keeping, \$1.00; Artificial Incubating and Brooding, 50c.; The Plymouth Rocks, Wyandottes, Leghorns, each, \$1.00; Asiatics, 50c.; Eggs and Egg Farms, 50c.; Poultry House and Fixtures, Chick Book, 50c.; Ducks and Geese, 75c.; Turkeys, Their Care and Management, 75c.; Bantam Fowl, 50c.; Reliable Poultry Remedies, 25c.; Egg Record and Account Book, 25c.; Million Egg Farm Book, \$1.00; Eggs the Year Around, 15c.

The Standard Book of Perfection—Everybody who raises poultry should have one of these books. Price, \$2.00, mailing weight 2 lbs.

Poultry Guide Post—The beginner in poultry keeping needs a plainly written hand-book telling what to do, how to do, and when to do it. The Poultry Guide Post is for beginners. Your money back if you don't find it better than we recommend. Price, \$1.00, postpaid; or 10 Lay or Bust Bags.

EGG-O-HATCH

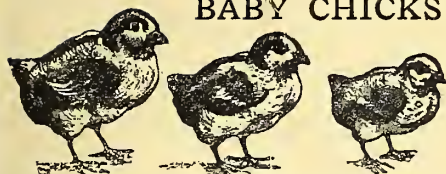
Egg-O-Hatch is a dry powder. It is mixed with water and the resulting liquid is applied to eggs two or three times during the 21 days of incubation. It is a liquid that does three things—supplies oxygen for the growing chick; absorbs carbon dioxide given off; makes more brittle and porous the shell of the egg. Per pkg., 50c., postpaid.

"Lay or Bust" is the best ever when it comes to getting results in eggs. I have tried many of the so-called balanced and egg-producing rations for chickens and must concede "Lay or Bust" to be supreme.

(Signed)

SAMUEL BOONE, Jr.

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From our
Mammoth
Hatchery we
can supply
Baby Chicks of
the leading var-
ieties at very
low prices and
at short notice.
Let us quote
you.

56 lbs.	Sorghum, broadcast	1 to 2 bu.
56 lbs.	Field Corn, in hills	8 qts.
60 lbs.	Corn, for soiling	1 to 2 bu.
48 lbs.	Vetches, broadcast	1 bu.
48 lbs.	Barley, broadcast	2 bu.
48 lbs.	Brown Broom Corn, in hills	6 to 8 qts.
48 lbs.	Buckwheat, broadcast	1 bu.

Liquids and Poisons cannot be sent by Parcel Post.

Local 50-150 Miles				Local 50-150 Miles			
Zones	1&2	3d	4th	Zones	1&2	3d	4th
1 lb.....	05	05	06	11 lb.....	10	15	26
2 lb.....	06	06	08	12 lb.....	11	16	28
3 lb.....	06	07	10	13 lb.....	11	17	30
4 lb.....	07	08	12	14 lb.....	12	18	32
5 lb.....	07	09	14	15 lb.....	12	19	34
6 lb.....	08	10	16	16 lb.....	13	20	36
7 lb.....	08	11	18	17 lb.....	13	21	38
8 lb.....	09	12	20	18 lb.....	14	22	40
9 lb.....	09	13	22	19 lb.....	14	23	42
10 lb.....	10	14	24	20 lb.....	15	24	44

Local 1&2 50-150				Local 1&2 50-150			
21 lb.....	16	25	36	31 lb.....	31	40	41
22 lb.....	17	26	37	32 lb.....	32	41	42
23 lb.....	18	27	38	33 lb.....	33	42	43
24 lb.....	19	28	39	34 lb.....	34	43	44
25 lb.....	20	29	40	35 lb.....	35	44	45
26 lb.....	21	30	41	36 lb.....	36	45	46
27 lb.....	22	31	42	37 lb.....	37	46	47
28 lb.....	23	32	43	38 lb.....	38	47	48
29 lb.....	24	33	44	39 lb.....	39	48	49
30 lb.....	25	34	45	40 lb.....	40	49	50
31 lb.....	26	35	46	41 lb.....	41	50	51
32 lb.....	27	36	47	42 lb.....	42	51	52
33 lb.....	28	37	48	43 lb.....	43	52	53
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